

Durethan[®] BKV60H3.0EF

PA6-GF60

60% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

PROPERTIESTYPICAL DATAUNITTEST METHODRHEOLOGICAL PROPERTIESDRY / CONDMolding shrinkage (parallel) $0.3 / \cdot$ %ISO 294-4Molding shrinkage (normal) $0.5 / \cdot$ %ISO 294-4MECHANICAL PROPERTIESDRY / CONDTensile modulus20000 / 12500MPaISO 527-1/-2Stress at break230 / 158MPaISO 527-1/-2Stress at break230 / 158MPaISO 527-1/-2Strain at break2.5 / 3.5%ISO 527-1/-2Flexural modulus20200 / 13500MPaISO 178Flexural strength390 / 250MPaISO 178Charpy impact strength (+23°C)95 / 95KJ/m²ISO 179/1eUCharpy unched impact strength (+23°C)17 / 24KJ/m²ISO 179/1eACharpy notched impact strength (-30°C)17 / -KJ/m²ISO 179/1eAIzod notched impact strength (+23°C)18 / 25KJ/m²ISO 130 11357-1/-3ThERMAL PROPERTIESDRY / CONDISO 1367-1/-2Meting temperature (10°C/min)221 / *°CISO 1367-1/-2Temp. of deflection under load (180 MPa)213 / *°CISO 1357-1/-2Temp. of deflection under load (0.45 MPa)220 / *°OISO 1359-1/-2Goeff. of linear therm. expansion (parallel)0.1 / *E-4/*CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12GWFI (Thickness (1) tested)0.75 / -mmIEC 60695-2-12				
Molding shrinkage (parallel) 0.3 /* % ISO 294–4 Molding shrinkage (normal) 0.5 /* % ISO 294–4 MECHANICAL PROPERTIES DRY / COND * * ISO 527–1/–2 Stress at break 230 / 158 MPa ISO 527–1/–2 * Stress at break 230 / 158 MPa ISO 527–1/–2 * Strain at break 2.5 / 3.5 % ISO 527–1/–2 * Flexural modulus 20200 / 13500 MPa ISO 527–1/–2 * Flexural modulus 20200 / 13500 MPa ISO 178 * Flexural strength 390 / 250 MPa ISO 178 * Oharpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU * Oharpy notched impact strength (-30°C) 17 / – kJ/m² ISO 179/1eA * Charpy notched impact strength (+23°C) 17 / – kJ/m² ISO 179/1eA * Charpy notched impact strength (+23°C) 17 / – kJ/m² ISO 130/1A * THERMAL PROPERTIES <td< td=""><td>PROPERTIES</td><td>TYPICAL DATA</td><td>UNIT</td><td>TEST METHOD</td></td<>	PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Molding shrinkage (normal) 0.5 / * % ISO 294–4 MECHANICAL PROPERTIES DRY / COND Tensile modulus 20000 / 12500 MPa ISO 527–1/–2 Stress at break 230 / 158 MPa ISO 527–1/–2 Stress at break 230 / 158 MPa ISO 527–1/–2 Strain at break 2.5 / 3.5 % ISO 527–1/–2 Flexural modulus 20200 / 13500 MPa ISO 527–1/–2 Flexural strength 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy inpact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notohed impact strength (+23°C) 17 / - kJ/m² ISO 11357–1/–3 Izod notohed impact strength (+23°C) 18 / 25 kJ/m² ISO 11357–1/–3 Izod notohed impact strength (+23°C) 18 / 25 kJ/m² ISO 11357–1/–3 Temp. of deflection under load (180 MPa) 213 / ° °C ISO 11357–1/–3 Temp. of deflection un	RHEOLOGICAL PROPERTIES	DRY / COND		
MECHANICAL PROPERTIES DRY / COND Tensile modulus 20000 / 12500 MPa ISO 527-1/-2 Stress at break 230 / 158 MPa ISO 527-1/-2 Strain at break 2.5 / 3.5 % ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) 17 / - kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) 18 / 25 kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND Meting temperature (10°C/min) 221 / * °C ISO 75-1/-2 Temp. of deflection under load (0.45 MPa)	Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Tensile modulus 20000 / 12500 MPa ISO 527-1/-2 Stress at break 230 / 158 MPa ISO 527-1/-2 Strain at break 2.5 / 3.5 % ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy notohed impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notohed impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notohed impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notohed impact strength (+23°C) 18 / 25 kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 ISO 11357-1/-2 Melting temperature (10°C/min) 221 / * °C ISO 11357-1/-2 Temp. of deflection under load (0.45 MPa) 213 / * °C ISO 11359-1/-2 Coeff. of linear	Molding shrinkage (normal)	0.5 / *	%	ISO 294-4
Tensile modulus 20000 / 12500 MPa ISO 527-1/-2 Stress at break 230 / 158 MPa ISO 527-1/-2 Strain at break 2.5 / 3.5 % ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy notohed impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notohed impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notohed impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notohed impact strength (+23°C) 18 / 25 kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 ISO 11357-1/-2 Melting temperature (10°C/min) 221 / * °C ISO 11357-1/-2 Temp. of deflection under load (0.45 MPa) 213 / * °C ISO 11359-1/-2 Coeff. of linear				
Stress at break 230 / 158 MPa ISO 527-1/-2 Strain at break $2.5 / 3.5$ % ISO 527-1/-2 Flexural modulus $20200 / 13500$ MPa ISO 178 Flexural strength $390 / 250$ MPa ISO 178 Charpy impact strength (+23°C) $95 / 95$ kJ/m² ISO 179/1eU Charpy impact strength (-30°C) $95 / 95$ kJ/m² ISO 179/1eU Charpy notched impact strength (+23°C) $17 / 24$ kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) $17 / -$ kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) $17 / -$ kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) $18 / 25$ kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 Melting temperature (10°C/min) $221 / \cdot$ °C ISO 11357-1/-2 Temp. of deflection under load (1.80 MPa) $213 / \cdot$ °C ISO 11357-1/-2 Temp. of deflection under load (0.45 MPa) $220 / \cdot$ °C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) $0.1 / \cdot$ E-4/°C ISO 11359-1/-2 <td>MECHANICAL PROPERTIES</td> <td>DRY / COND</td> <td></td> <td></td>	MECHANICAL PROPERTIES	DRY / COND		
Strain at break 2.5 / 3.5 % ISO 527-1/-2 Flexural modulus 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notched impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) 18 / 25 kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND Iso 1357-1/-3 Melting temperature (10°C/min) 221 / * °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 213 / * °C ISO 11357-1/-2 Temp. of deflection under load (0.45 MPa) 220 / * °C ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.1 / * E-4/°C ISO 11359-1/-2 </td <td>Tensile modulus</td> <td>20000 / 12500</td> <td>MPa</td> <td>ISO 527-1/-2</td>	Tensile modulus	20000 / 12500	MPa	ISO 527-1/-2
Flexural modulus 20200 / 13500 MPa ISO 178 Flexural strength 390 / 250 MPa ISO 178 Charpy impact strength (+23°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy impact strength (-30°C) 95 / 95 kJ/m² ISO 179/1eU Charpy notched impact strength (-30°C) 17 / 24 kJ/m² ISO 179/1eA Charpy notched impact strength (-30°C) 17 / - kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) 18 / 25 kJ/m² ISO 179/1eA Izod notched impact strength (+23°C) 18 / 25 kJ/m² ISO 180/1A THERMAL PROPERTIES DRY / COND ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 213 / * °C ISO 11357-1/-2 Melting temperature (10°C/min) 221 / * °C ISO 178-1/-2 ISO 160 (155-1/-2 Temp. of deflection under load (0.45 MPa) 220 / * °C ISO 11359-1/-2 ISO 11359-1/-2 Coeff. of linear therm. expansion (parallel) 0.1 / * E-4/°C ISO 1	Stress at break	230 / 158	MPa	ISO 527-1/-2
Flexural strength $390 / 250$ MPaISO 178Charpy impact strength (+23°C) $95 / 95$ kJ/m²ISO 179/1eUCharpy impact strength (-30°C) $95 / 95$ kJ/m²ISO 179/1eUCharpy notched impact strength (+23°C) $17 / 24$ kJ/m²ISO 179/1eACharpy notched impact strength (-30°C) $17 / -$ kJ/m²ISO 179/1eAIzod notched impact strength (-30°C) $17 / -$ kJ/m²ISO 179/1eAIzod notched impact strength (+23°C) $18 / 25$ kJ/m²ISO 180/1ATHERMAL PROPERTIESMelting temperature (10°C/min) $221 / *$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $213 / *$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $220 / *$ °CISO 11359-1/-2Coeff. of linear therm. expansion (parallel) $0.1 / *$ $E-4/°C$ ISO 11359-1/-2Glow Wire Flammability Index GWFI $700 / -$ °CIEC 60695-2-12	Strain at break	2.5 / 3.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)95 / 95kJ/m²ISO 179/1eUCharpy impact strength (-30°C)95 / 95kJ/m²ISO 179/1eUCharpy notched impact strength (+23°C)17 / 24kJ/m²ISO 179/1eACharpy notched impact strength (-30°C)17 / -kJ/m²ISO 179/1eAIzod notched impact strength (+23°C)18 / 25kJ/m²ISO 180/1ATHERMAL PROPERTIESMelting temperature (10°C/min)221 / *°CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)213 / *°CISO 75-1/-2Coeff. of linear therm. expansion (parallel)0.1 / *E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	Flexural modulus	20200 / 13500	MPa	ISO 178
Charpy impact strength (-30°C)95 / 95kJ/m²ISO 179/1eUCharpy notched impact strength (+23°C)17 / 24kJ/m²ISO 179/1eACharpy notched impact strength (-30°C)17 / -kJ/m²ISO 179/1eAIzod notched impact strength (+23°C)18 / 25kJ/m²ISO 180/1ATHERMAL PROPERTIESMelting temperature (10°C/min)221 / *°CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)213 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa)220 / *°CISO 11359-1/-2Coeff. of linear therm. expansion (parallel)0.1 / *E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	Flexural strength	390 / 250	MPa	ISO 178
Charpy notched impact strength (+23°C) $17 / 24$ kJ/m²ISO 179/1eACharpy notched impact strength (-30°C) $17 / -$ kJ/m²ISO 179/1eAIzod notched impact strength (+23°C) $18 / 25$ kJ/m²ISO 180/1ATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $221 / *$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $213 / *$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $220 / *$ °CISO 11359-1/-2Coeff. of linear therm. expansion (parallel) $0.1 / *$ $E-4/°C$ ISO 11359-1/-2Glow Wire Flammability Index GWFI $700 / -$ °CIEC 60695-2-12	Charpy impact strength (+23°C)	95 / 95	kJ∕m²	ISO 179/1eU
Charpy notched impact strength (-30°C) $17 / -$ kJ/m²ISO 179/1eAIzod notched impact strength (+23°C) $18 / 25$ kJ/m²ISO 180/1ATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $221 / *$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $213 / *$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $220 / *$ °CISO 11359-1/-2Coeff. of linear therm. expansion (parallel) $0.1 / *$ $E-4/°C$ ISO 11359-1/-2Glow Wire Flammability Index GWFI $700 / -$ °CIEC 60695-2-12	Charpy impact strength (-30°C)	95 / 95	kJ∕m²	ISO 179/1eU
Izod notched impact strength (+23°C)18 / 25kJ/m²ISO 180/1ATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min)221 / *°CISO 11357-1/-3Temp. of deflection under load (1.80 MPa)213 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa)220 / *°CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.1 / *$ E-4/°CISO 11359-1/-2Coeff. of linear therm. expansion (normal) $0.8 / *$ E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	Charpy notched impact strength (+23°C)	17 / 24	kJ∕m²	ISO 179/1eA
THERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $221/*$ °CISO 11357-1/-3Temp. of deflection under load (1.80 MPa) $213/*$ °CISO 75-1/-2Temp. of deflection under load (0.45 MPa) $220/*$ °CISO 75-1/-2Coeff. of linear therm. expansion (parallel) $0.1/*$ $E-4/°C$ ISO 11359-1/-2Coeff. of linear therm. expansion (normal) $0.8/*$ $E-4/°C$ ISO 11359-1/-2Glow Wire Flammability Index GWFI $700/-$ °CIEC 60695-2-12	Charpy notched impact strength (-30°C)	17 / -	kJ∕m²	ISO 179/1eA
Melting temperature (10°C/min) 221 / * °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 213 / * °C ISO 75-1/-2 Temp. of deflection under load (0.45 MPa) 220 / * °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 0.1 / * E-4/°C ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 0.8 / * E-4/°C ISO 11359-1/-2 Glow Wire Flammability Index GWFI 700 / - °C IEC 60695-2-12	Izod notched impact strength $(+23^\circ\text{C})$	18 / 25	kJ/m²	ISO 180/1A
Melting temperature (10°C/min) 221 / * °C ISO 11357-1/-3 Temp. of deflection under load (1.80 MPa) 213 / * °C ISO 75-1/-2 Temp. of deflection under load (0.45 MPa) 220 / * °C ISO 75-1/-2 Coeff. of linear therm. expansion (parallel) 0.1 / * E-4/°C ISO 11359-1/-2 Coeff. of linear therm. expansion (normal) 0.8 / * E-4/°C ISO 11359-1/-2 Glow Wire Flammability Index GWFI 700 / - °C IEC 60695-2-12				
Temp. of deflection under load (1.80 MPa)213 / *°CISO 75-1/-2Temp. of deflection under load (0.45 MPa)220 / *°CISO 75-1/-2Coeff. of linear therm. expansion (parallel)0.1 / *E-4/°CISO 11359-1/-2Coeff. of linear therm. expansion (normal)0.8 / *E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	THERMAL PROPERTIES	DRY / COND		
Temp. of deflection under load (0.45 MPa)220 / *°CISO 75-1/-2Coeff. of linear therm. expansion (parallel)0.1 / *E-4/°CISO 11359-1/-2Coeff. of linear therm. expansion (normal)0.8 / *E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	Melting temperature (10°C/min)	221 / *	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel) $0.1/*$ $E-4/°C$ ISO 11359-1/-2Coeff. of linear therm. expansion (normal) $0.8/*$ $E-4/°C$ ISO 11359-1/-2Glow Wire Flammability Index GWFI $700/ °C$ IEC 60695-2-12	Temp. of deflection under load (1.80 MPa)	213 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (normal)Ø.8 / *E-4/°CISO 11359-1/-2Glow Wire Flammability Index GWFI700 / -°CIEC 60695-2-12	Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Glow Wire Flammability Index GWFI 700 / - °C IEC 60695-2-12	Coeff. of linear therm. expansion (parallel)	0.1 / *	E-4/°C	ISO 11359-1/-2
	Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
GWFI (Thickness (1) tested) 0.75 / - mm IEC 60695-2-12	Glow Wire Flammability Index GWFI	700 / -	°C	IEC 60695-2-12
	GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12

Print Date: 2024-09-17

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Property Data

Durethan[®] BKV60H3.0EF

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Glow Wire Flammability Index GWFI	725 /	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	750 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-13
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4.3 / 8.71	_	IEC 62631-2-1
Relative permittivity (1 MHz)	5.07 / 4.68	_	IEC 62631-2-1
Dissipation factor (100 Hz)	0.02 / 0.1	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	0.03 / 0.06	E-4	IEC 62631-2-1
Volume resistivity	6.14E12 / 6.6E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 2.64E14	Ohm	IEC 62631-3-2
Electric strength	28.6 / 25.8	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Density	1710 / -	kg∕m³	ISO 1183
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2–6	h	
Residual moisture content	0.05–0.15	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	270–290	°C	
Mold temperature	80-120	°C	

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