Property Data

Envalior
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Durethan® BKV15H2.0 DUS008

PA6–GF15

15% Glass Reinforced, Injection Molding, Heat Stabilized

Print Date: 2024–12–03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.5 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6200 / 3100	MPa	ISO 527–1/–2
Stress at break	120 / 59	MPa	ISO 527–1/–2
Strain at break	2.4 / 12	%	ISO 527–1/–2
Flexural modulus	5700 / 2800	MPa	ISO 178
Flexural strength	195 / 100	MPa	ISO 178
Tensile modulus (200°C)	1640	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	40 / 100	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 10	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	195 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	216 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Glow Wire Flammability Index GWFI	675 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	1.5 / –	mm	IEC 60695–2–12

OTHER PROPERTIES	*DRY / COND*		
Water absorption	8.5 / *	%	Sim. to ISO 62
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1230 / –	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	0.03–0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260–290	°C	
Mold temperature	80–100	°C	