

Durethan[®] BM240H2.0

PA6–MX40

40% Mineral Reinforced, Injection Molding, Heat Stabilized, Low Warpage

Print Date: 2024–12–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6000 / 2200	MPa	ISO 527–1/–2
Stress at break	85 / 50	MPa	ISO 527–1/–2
Strain at break	7 / 40	%	ISO 527–1/–2
Flexural modulus	5500 / 2100	MPa	ISO 178
Flexural strength	150 / 60	MPa	ISO 178
Tensile modulus (200°C)	495	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	120 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	90 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (–40°C)	<10 / <10	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	90 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	190 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.6 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695–11–10

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Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	26 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	700 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695-2-12
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Relative permittivity (100Hz)	4.4 / 15	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.7	–	IEC 62631-2-1
Dissipation factor (100 Hz)	110 / 2500	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 1000	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	35 / 38	kV/mm	IEC 60243-1
Comparative tracking index	525 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1460 / –	kg/m³	ISO 1183
<i>MATERIAL SPECIFIC PROPERTIES</i>	<i>DRY / COND</i>		
Viscosity number	142 / *	cm³/g	ISO 307, 1157, 1628
<i>PROCESSING RECOMMENDATIONS</i>	<i>VALUE</i>		
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)	280-300	°C	

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Mold temperature	80-120	°C	

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