

Durethan[®] BM40XH2.0EF

PA6—(MX+MD)40

40% Glass/Mineral Reinforced, Injection Molding, Heat Stabilized, Improved flow, Excellent Surface Properties, Low Warpage

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.31 / *	%	ISO 294-4
Molding shrinkage (normal)	0.72 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9000 / 4800	MPa	ISO 527-1/-2
Stress at break	130 / 70	MPa	ISO 527-1/-2
Strain at break	2.5 / 9	%	ISO 527-1/-2
Flexural modulus	8800 / 4250	MPa	ISO 178
Flexural strength	206 / 125	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 65	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	37 / 45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 10	kJ/m ²	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)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.28 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.85 / *	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

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Property Data

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Print Date: 2024-08-24

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1450 / -	kg/m³	ISO 1183

<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	
Mold temperature	80-100	°C	

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