

Durethan[®] BM40XH2.0 DUS009

PA6—(MX+MD)40

40% Glass/Mineral Reinforced, Injection Molding, Heat Stabilized

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.51 / *	%	ISO 294-4
Molding shrinkage (normal)	0.67 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8000 / 4000	MPa	ISO 527-1/-2
Stress at break	115 / -	MPa	ISO 527-1/-2
Strain at break	2.6 / -	%	ISO 527-1/-2
Flexural modulus	8000 / -	MPa	ISO 178
Flexural strength	190 / -	MPa	ISO 178
Tensile modulus (200°C)	1870	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	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)	191 / *	°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)	0.35 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.85 / *	E-4/°C	ISO 11359-1/-2

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Property Data

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<i>ELECTRICAL PROPERTIES</i>			
Comparative tracking index	425 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>			
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1480 / –	kg/m ³	ISO 1183
<i>MATERIAL SPECIFIC PROPERTIES</i>			
Viscosity number	138 / *	cm ³ /g	ISO 307, 1157, 1628
<i>PROCESSING RECOMMENDATIONS</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	80–120	°C	

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