

Durethan® BTC67ZH3.0EF

PA6—MX67

67% Mineral Reinforced, Injection Molding, Heat Stabilized, Thermal conductive material

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.9 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8800 / 3000	MPa	ISO 527-1/-2
Stress at break	90 / 55	MPa	ISO 527-1/-2
Strain at break	3.5 / 13	%	ISO 527-1/-2
Flexural modulus	8900 / 3300	MPa	ISO 178
Flexural strength	170 / 90	MPa	ISO 178
Tensile modulus (200°C)	723	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	70 / 170	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50 / 50	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)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	120 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	189 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.5 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2
Thermal conductivity in plane	1.1	W/(m K)	ASTM E1461

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Thermal conductivity through plane	1	W/(m K)	ASTM E1461
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	>1E13 / –	Ohm*m	IEC 62631-3-1
Electric strength	33 / –	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Density	2170 / –	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Melt temperature (Tmin – Tmax)	280-300	°C	
Mold temperature	80-120	°C	