

Durethan[®] BTC67ZH3.0EF

PA6–MX67

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

Print Date: 2024–09–17

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/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	50 / 50	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)	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/m ³	ISO 1183
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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

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