

Durethan[®] DPBM65XFM30

PA6—(GF+MX)65 FR(61)

65% Glass/Mineral Reinforced, Injection Molding, Flame Retardant (halogen free), Heat Stabilized, Improved flow

Print Date: 2024-12-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	0.5 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	12100 / 6000	MPa	ISO 527-1/-2
Stress at break	120 / 73	MPa	ISO 527-1/-2
Strain at break	1.6 / 2.2	%	ISO 527-1/-2
Flexural modulus	12300 / 6000	MPa	ISO 178
Flexural strength	175 / 110	MPa	ISO 178
Charpy impact strength (+23°C)	30 / 23	kJ/m ²	ISO 179/1eU
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)	181 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	200 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	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
Thermal conductivity through plane	0.9	W/(m K)	ASTM E1461
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	49.1 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-13
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Electric strength	26.3 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	3.5 / *	%	Sim. to ISO 62
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1690 / -	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	0.03-0.07	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	250-280	°C	
Mold temperature	80-100	°C	

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