

Mar-Bal MB5500

Thermoplastic Polyester

Mar-Bal, Inc.

Message:

A superior heat resistant material. U.L. RTI rating of 160°C-170°C

General Information			
UL YellowCard	E80533-250711		
Features	High Heat Resistance		
UL File Number	E80533		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.80	g/cm ³	ASTM D792
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35 to 45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	41.4 to 55.2	MPa	ASTM D638
Flexural Modulus	11000 to 12400	MPa	ASTM D790
Flexural Strength	117 to 131	MPa	ASTM D790
Compressive Modulus	317000 to 345000	MPa	ASTM D695
Compressive Strength	89.6 to 103	MPa	ASTM D695
Shear Strength	48.3 to 55.2	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	430 to 530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	> 14	kV/mm	ASTM D149
Arc Resistance	> 185	sec	ASTM D495
Inclined-Plane Tracking	> 1000	min	ASTM D2303
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			

1. Method A (Short-Time)

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