

# Mar-Bal MB4000

Thermoplastic Polyester

Mar-Bal, Inc.

Message:

The high track resistant material. A flame retardant polyester molding compound with moderate strength and excellent electrical properties and exceptional arc and track resistance. Suitable for replacing porcelain in insulator and other electrical applications where higher track resistance is critical.

General Information			
UL YellowCard	E80533-250710		
Features	Arc Resistant		
	Flame Retardant		
	Good Electrical Properties		
	Good Strength		
	Tracking Resistant		
Uses	Electrical Parts		
	Standoff Insulators		
UL File Number	E80533		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.90	g/cm <sup>3</sup>	ASTM D792
Bulk Factor	1.0 to 1.5		ASTM D1895
Molding Shrinkage - Flow	0.050 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	41 to 47		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	34.5 to 44.8	MPa	ASTM D638
Flexural Modulus	11700 to 13100	MPa	ASTM D790
Flexural Strength	89.6 to 117	MPa	ASTM D790
Compressive Modulus	345000 to 372000	MPa	ASTM D695
Compressive Strength	96.5 to 103	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	370 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 <sup>1</sup>	> 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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material


## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT