

IDI STC 1023

Thermoset Polyester
IDI Composites International

Message:
PRODUCT SERIES: ST 1000 SERIES BMC
PRODUCT DESCRIPTION: POLYESTER, VINYLESTER AND HYBRID COMPOSITES

General Information			
Forms	BMC - Bulk Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.90	g/cm ³	ASTM D792
Bulk Factor	1.0		ASTM D1895
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 to 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	68.9	MPa	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	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	16	kV/mm	ASTM D149
Arc Resistance	> 180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94

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