

STAR PBT GP

General	
Availability	Global
Processing Method	Injection Molding
Description	General purpose, lubricated PBT

Physical	Nominal Value	Test Method
Density/Specific Gravity	1.31	ASTM D792
Melt Mass-Flow Rate	15 g/10 min	ASTM D1238

Mechanical	Nominal Value	Test Method
Tensile Strength (Yield, .125 in)	7500 psi	ASTM D638
Tensile Strength (Break, .125 in)	7500 psi	ASTM D638
Tensile Elongation (Yield .125 in)	3.50%	ASTM D638
Tensile Elongation (Break, .125 in)	200%	ASTM D638
Flexural Modulus (.125 in)	33500 psi	ASTM D790
Flexural Strength (.125 in)	11500 psi	ASTM D790

Impact	Nominal Value	Test Method
Notched Izod Impact	1 ft lb/in	ASTM D256
Unnotched Izod Impact	30 ft lb/in	ASTM D4812
Gardner Impact	320 in lb	ASTM D3029

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Thermal	Nominal Value	Test Method
Deflection Temperature Under Load (66 psi, unannealed)	300 F	ASTM D648
Deflection Temperature Under Load (264 psi, unannealed)	127 F	ASTM D648
Vicat Softening Temperature	374 F	ISO 306/B50

Electrical		Nominal Value	Test Method
Volume Resistivity		1.0E+16 ohms cm	ASTM D257
Dielectric Strength	.0625 in, in Oil	580 V/mil	ASTM D149
	.125 in, in Air	390 V/mil	
	.125 in, in Oil	390 V/mil	
Dielectric Constant			ASTM D150
	100 Hz	3.3	
	1 MHz	0.02	
Dissipation Factor			ASTM D150
	100 Hz	2.00E-03	
	1MHz	0.02	

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