

Styron PULSE 6000 BG PC/ABS Engineering Resin

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Overview: PULSE 6000 BG is a PC/ABS resin offering an interesting combination of heat ageing characteristics, low temperature impact performance and high melt strength. Its low MFR enables manufacturing of complex blow molding parts. Applications: Blow Molded Spoilers, knee bolsters and Seat Backs. Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-PULSE-6000-BG-PCABS-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792; ISO 1183
Water Absorption	0.53 %	0.53 %	ASTM D570
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238; ISO 1133
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527-2
	54.5 MPa	7900 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527-2
Elongation at Break	>= 80 %	>= 80 %	ISO 527-2; ASTM D638
Elongation at Yield	5.0 %	5.0 %	ISO 527-2; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	ASTM D638
	2.28 GPa	331 ksi	ISO 527-2
Flexural Strength	68.0 MPa	9860 psi	3 points, 2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	3 points, 2 mm/min; ISO 178
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Mechanical Properties	Metric/cm	English ft-lb/in	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D256
Izod Impact, Notched (ISO)	61.0 kJ/mÂ² @Temperature -40.0 Â°C	29.0 ft-lb/inÂ² @Temperature -40.0 Â°F	ASTM D256
	69.0 kJ/mÂ² @Temperature 23.0 Â°C	32.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ASTM D256
Charpy Impact, Notched	5.00 J/cmÂ² @Temperature -40.0 Â°C	23.8 ft-lb/inÂ² @Temperature -40.0 Â°F	ISO 179
	6.10 J/cmÂ² @Temperature 23.0 Â°C	29.0 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.0 Âµm/m-Â°C @Temperature -40.0 - 82.0 Â°C	41.1 Âµin/in-Â°F @Temperature -40.0 - 180 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Unannealed; ISO 75-2/B
	111 Â°C	232 Â°F	Unannealed; ASTM D648
Vicat Softening Point	130 Â°C	266 Â°F	ISO 306/B50
	144 Â°C	291 Â°F	ISO 306/A120

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