

Styron MAGNUM[®],ç 1250 BG Acrylonitrile Butadiene Styrene (ABS) Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Overview: High Impact, High Heat, Blow Molding ABS Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-MAGNUM-1250-BG-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792; ISO 1183/B
Melt Flow	1.7 g/10 min	1.7 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	1.7 g/10 min	1.7 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 Å°C	@Load 22.0 lb, Temperature 428 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ASTM D638
Tensile Strength, Yield	33.6 MPa	4870 psi	ASTM D638
	33.7 MPa	4890 psi	
Flexural Modulus	1.81 GPa	263 ksi	ISO 178
	2.01 GPa	292 ksi	ASTM D790
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	ASTM D256
	@Temperature -29.0 Å°C	@Temperature -20.2 Å°F	
	3.60 J/cm	6.74 ft-lb/in	ISO 75-2/B
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	ISO 180
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	26.0 kJ/m ²	12.4 ft-lb/in ²	ISO 180
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	101 Å°C	214 Å°F	Unannealed; ISO 75-2/B
	103 Å°C	217 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Å°C	185 Å°F	Unannealed; ISO 75-2/A
	86.7 Å°C	188 Å°F	Unannealed; ASTM D648

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