Styron Magnumâ„¢ 3513 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

MAGNUMâ„¢ 3513 is a grade which combines high impact with good flowability. It is suitable for injection molding and extrusion applications.Information provided by DowThis product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-Magnum-3513-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/inÂ³	ISO 60
Density	1.05 g/cc	0.0379 lb/inÂ³	ISO 1183B
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294
Melt Flow	9.03 g/10 min	9.03 g/10 min	ISO 1133
	8.5 g/10 min @Load 10.0 kg, Temperature 220 Â°C	8.5 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	50mm/min; ISO 527-2
Elongation at Yield	2.3 %	2.3 %	50mm/min; ISO 527-2
Tensile Modulus	2.36 GPa	342 ksi	ISO 527-2
Flexural Strength	70.0 MPa	10200 psi	3 points and 2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	3 points and 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/mÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180/A
	23.0 kJ/mÂ² @Temperature 23.0 Â°C	10.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/A
Charpy Impact, Notched	0.800 J/cmÂ² @Temperature -30.0 Â°C	3.81 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/2C (1984)
	1.10 J/cmÂ² @Temperature -30.0	5.24 ft-lb/inÂ² @Temperature -22.0	ISO 179-1/1eA

Mechanical Properties	Metric	English	Comments
	1.50 J/cmÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/2C (1984)
	2.40 J/cmÂ² @Temperature 23.0 Â°C	11.4 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	annealed; ISO 75-A
Vicat Softening Point	100.5 Â°C	212.9 Â°F	50Â°C/hr, 50N; ISO 306-B50
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	45 mm/min	1.8 in/min	Horizontal Burning Speed 2mm thickness; ISO 3795

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