

Styron Magnum,ç 3525 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

MAGNUM,ç 3525 is a resin with excellent processing characteristics. The mass (continuous process) ABS technology of Dow ensures an ABS resin that combines excellent processability with a stable light base color that is ideal for self coloring. Information provided by Dow This 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-3525-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ISO 60
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183B
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 220 °C	11 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	50mm/min; ISO 527-2
	44.0 MPa	6380 psi	100mm/min; ISO 527-2
Elongation at Yield	3.3 %	3.3 %	50mm/min; ISO 527-2
	3.3 %	3.3 %	100mm/min; ISO 527-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-2
Flexural Strength	65.0 MPa	9430 psi	3 points and 2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	3 points and 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	17.0 kJ/m ² @Temperature 23.0 °C	8.09 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact, Notched	0.800 J/cm ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2C (1984)

Mechanical Properties	Metric	English	Comments
	1.10 J/cm ² @Temperature -30.0 Â°C	5.24 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179-1/1eA
	1.20 J/cm ² @Temperature 23.0 Â°C	5.71 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/2C (1984)
	1.70 J/cm ² @Temperature 23.0 Â°C	8.09 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C	216 Â°F	Unannealed; ISO 75-A
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	60 mm/min	2.4 in/min	Horizontal Burning Speed 2mm thickness; ISO 3795

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