

## Styron MAGNUM<sup>®</sup>,ç 3904 Acrylonitrile Butadiene Styrene (ABS) Resin

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Overview: MAGNUM<sup>®</sup>,ç 3904 is a resin with super-high impact. It is used in a wide range of technical applications. It can be processed by injection molding, extrusion or thermoforming. The mass (continuous process) ABS technology of Styron ensures an ABS resin that combines excellent processability with a stable light base color that is ideal for self-coloring. Applications: Transportation Protective covers Leisure Automotive interior trim Luggage Information provided by Styron

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styron-MAGNUM-3904-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php](http://www.lookpolymers.com/polymer_Styron-MAGNUM-3904-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183/B
Apparent Bulk Density	0.650 g/cc	0.0235 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	4.5 g/10 min @Load 10.0 kg, Temperature 220 Å°C	4.5 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ISO 60

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa @Thickness 3.20 mm	5370 psi @Thickness 0.126 in	Injection Molded; ISO 527-2/50
	39.0 MPa @Thickness 3.20 mm	5660 psi @Thickness 0.126 in	Injection Molded; ISO 527-2/100
Elongation at Yield	2.6 % @Thickness 3.20 mm	2.6 % @Thickness 0.126 in	Injection Molded; ISO 527-2/50
	2.8 % @Thickness 3.20 mm	2.8 % @Thickness 0.126 in	Injection Molded; ISO 527-2/100
Tensile Modulus	1.82 GPa @Thickness 3.20 mm	264 ksi @Thickness 0.126 in	Injection Molded; ISO 527-2
Flexural Strength	58.0 MPa @Thickness 3.20 mm	8410 psi @Thickness 0.126 in	3-points, 2 mm/min, Injection Molded; ISO 178
Flexural Modulus	1.90 GPa @Thickness 3.20 mm	276 ksi @Thickness 0.126 in	3-points, 2 mm/min, Injection Molded; ISO 178

Mechanical Properties	Metric	English	Comments
Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	Injection Molded; ISO 180/A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	42.0 kJ/m <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	Injection Molded; ISO 180/A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Injection Molded; ISO 179/2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	Injection Molded; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	Injection Molded; ISO 179/2
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.70 J/cm <sup>2</sup>	17.6 ft-lb/in <sup>2</sup>	Injection Molded; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	Annealed; ISO 75-2/A
Vicat Softening Point	97.0 °C	207 °F	ISO 306/B50
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flame Spread	40.0 mm/min	1.57 in/min	ISO 3795

Descriptive Properties	Value	Comments
Carbon Emission	200 µg/g	VDA 277

## Contact Songhan Plastic Technology Co.,Ltd.

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