

## Styron MAGNUM<sup>®</sup>,ç 3325 SLG Acrylonitrile Butadiene Styrene (ABS) Resin

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Overview: Super Low Gloss, Medium Heat, Medium Impact ABS resin for injection molded automotive interior trim applications Magnum 3325 SLG can achieve 60<sup>°</sup> Gardner gloss levels below 2.0 with low gloss gradient across the molded part. Applications: Chrysler-MSDB-191Ford-WSB-M4D690-AGM-GMP.ABS.009Information provided by Styron

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styron-MAGNUM-3325-SLG-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php](http://www.lookpolymers.com/polymer_Styron-MAGNUM-3325-SLG-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792; ISO 1183/B
Apparent Bulk Density	0.690 g/cc	0.0249 lb/in <sup>3</sup>	ASTM D1895
Linear Mold Shrinkage, Flow	0.0053 cm/cm	0.0053 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0052 cm/cm	0.0052 in/in	ISO 294-4
Melt Flow	3.1 g/10 min @Load 3.80 kg, Temperature 230 °C	3.1 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527-2
	40.0 MPa	5800 psi	51 mm/min; ASTM D638
Elongation at Break	19 %	19 %	ISO 527-2/50
	22 %	22 %	51 mm/min; ASTM D638
Elongation at Yield	3.8 %	3.8 %	51 mm/min; ISO 527-2/50; ASTM D635
Tensile Modulus	1.92 GPa	278 ksi	ISO 527-2
	2.08 GPa	302 ksi	51 mm/min; ASTM D638
Flexural Strength	61.0 MPa	8850 psi	3-point, 2 mm/min; ISO 178
	64.1 MPa	9300 psi	Method I (3 point load), 1.3 mm/min; ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	3-point, 2 mm/min; ISO 178
	2.14 GPa	310 ksi	Method I (3 point load), 1.3 mm/min; ASTM D790
	1.30 J/cm	2.44 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.90 J/cm	3.56 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 180/A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 180/A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop, Total Energy	23.0 J	17.0 ft-lb	Peak Energy; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	30.0 J	22.1 ft-lb	Peak Energy; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 µm/m-°C	46.1 µin/in-°F	ASTM E831
	@Temperature -40.0 - 100 °C	@Temperature -40.0 - 212 °F	
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ASTM E831
	@Temperature -40.0 - 100 °C	@Temperature -40.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.7 °C	206 °F	Unannealed; ASTM D648
	97.0 °C	207 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	Unannealed; ISO 75-2/A; ASTM D648
Vicat Softening Point	101 °C	214 °F	Rate A (50°C/h); ISO 306/B50; ASTM D1525
	@Load 5.10 kg	@Load 11.2 lb	

Thermal Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 Â°C	460 Â°F	
Middle Barrel Temperature	249 Â°C	480 Â°F	
Front Barrel Temperature	254 Â°C	489 Â°F	
Nozzle Temperature	249 - 254 Â°C	480 - 489 Â°F	
Melt Temperature	243 - 271 Â°C	469 - 520 Â°F	
Mold Temperature	38.0 - 66.0 Â°C	100 - 151 Â°F	
Drying Temperature	82.0 - 85.0 Â°C	180 - 185 Â°F	
Dry Time	>= 2.00 hour	>= 2.00 hour	

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