

Styron Magnum,ç 3416 SC Natural Plus ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

The mass (continuous process) ABS technology of Dow ensures an ABS resin that combines excellent processability with sable 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-3416-SC-Natural-Plus-ABS-Resin.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
Melt Flow	2.2 g/10 min	2.2 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 Â°C	@Load 8.38 lb, Temperature 446 Â°F	
	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88	88	ISO 2039/2
Tensile Strength, Yield	51.0 MPa	7400 psi	100mm/min; ISO DIS527/D
Elongation at Break	25 %	25 %	ISO DIS527/D
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO DIS527/A
Flexural Strength	76.0 MPa	11000 psi	1mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	3 points; ISO 178
	2.70 GPa	392 ksi	4 point; ISO 178
Shear Modulus	0.960 GPa	139 ksi	ISO 537
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/2D
	NB	NB	ISO 179/2D
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ISO 179/2D
	0.700 J/cm ²	3.33 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric	English	ISO 179/2C Comments
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179/2C
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179/2C
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/2C
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	108 Â°C	226 Â°F	annealed (120Â°C/hr); ISO 75-A
Vicat Softening Point	108 Â°C	226 Â°F	50Â°C/hr, 5kg; ISO 306-B
	119 Â°C	246 Â°F	120Â°C/hr, 1kg; ISO 306-A
Flammability, UL94	HB	HB	all colors

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