

Styron Magnum® 9085 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

MAGNUM® ABS resins are thermoplastic materials which provide an excellent balance of processability, impact resistance and heat resistance as imparted by the various polymer compositions. MAGNUM ABS resin are available in a wide range of melt flow rates, impact strength and heat resistance for both high and low gloss applications manufactured by injection molding, sheet or profile extrusion and thermoforming. MAGNUM ABS resins offer a range of gloss and processability options for sprinkler and irrigation applications. Providing high tensile strength with a balance of flow and impact resistance, MAGNUM ABS resins are used in pop-up sprinkler bodies, risers and valves. MAGNUM 9085 ABS resin is a medium gloss, medium impact, low melt flow rate resin for use in irrigation applications. Data provided by Dow Chemical. 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-9085-ABS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	2.5 g/10 min @Load 3.80 kg, Temperature 230 °C	2.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM Data
Tensile Strength, Yield	42.7 MPa	6190 psi	ASTM Data
Elongation at Break	20 %	20 %	ASTM Data
Tensile Modulus	2.28 GPa	331 ksi	ASTM Data
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM Data

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	60 %	60 %	Gardner Gloss, 60°

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