

A. Schulman POLYAXIS® CP812 Stabilized Compounded Rotational Molding Resin

Category : Polymer , Thermoplastic

Material Notes:

Description Polyaxis CP 812 is a stabilized compounded rotational molding resin with a combination of good flow and stiffness. NOTE: Physical properties are based on rotationally molded samples from unpigmented resins. Density and ESCR tests were performed on compression molded samples. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-POLYAXIS-CP812-Stabilized-Compounded-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.935 g/cc	0.935 g/cc	ASTM D792
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Index of Compound	6.0 - 7.0 g/10 min	6.0 - 7.0 g/10 min	2.16/190; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.5 MPa	2250 psi	2"/min; ASTM D638
Elongation at Break	500 %	500 %	2"/min; ASTM D638
Flexural Modulus	0.538 GPa	78.0 ksi	at 1% secant modulus; ASTM D790
Impact Test	65.1 J @Thickness 3.17 mm, Temperature -40.0 °C	48.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM impact

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	49.0 °C	120 °F	ASTM D648

Descriptive Properties	Value	Comments
UV Stabilization	UV-8	

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