

## ICO Polymers ICORENE 440-1312 PP Rotational Molding Resin

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Description: ICORENE 440-1312 is a polypropylene copolymer developed for rotational molding applications. The resin is fully UV protected. Key Characteristics: very high rigidity, good creep resistance, good high temperature resistance. Information provided by ICO Polymers. A Schulman acquired ICO, Inc. in 2010.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ICO-Polymers-ICORENE-440-1312-PP-Rotational-Molding-Resin.php](http://www.lookpolymers.com/polymer_ICO-Polymers-ICORENE-440-1312-PP-Rotational-Molding-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1505
Melt Index of Compound	13 g/10 min @Load 2.16 kg, Temperature 190 °C	13 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ASTM D638
Tensile Modulus	1.20 GPa	174 ksi	1 mm/min; ASTM D638
Flexural Modulus	1.35 GPa	196 ksi	1.3 mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ASTM D648

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