

Plastics Group Polifil® RP-PP Polypropylene, Black

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

Material Notes:

Polifil® RP-PP reprocessed polypropylene has the highest stiffness of the commodity olefin resins, while retaining sufficient impact properties for many applications. Due to its low cost and low density, polypropylene use has been expanding rapidly, and common uses now include injection molded articles, fibers, packaging films, and extruded sheet and profiles. Polypropylene is widely used in injection molding for housewares, appliances, and automotive parts. High flow grades are spun into fibers, and molded into thin wall containers, cups, and lids. Moderate flow resins are common in general injection molding and cast films. High molecular weight, low flow grades are extruded into sheet and profiles, and blow molded into automotive parts and recreational goods. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-RP-PP-Polypropylene-Black.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D792
Water Absorption	0.00 %	0.00 %	24 hours; ASTM D570
Melt Flow	12 g/10 min	12 g/10 min	230/2.16, nominal; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	>= 200 %	>= 200 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	1% Secant; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	86.7 °C	188 °F	ASTM D648

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