

## Pinnacle Polymers 5112 C Clarified Random Polypropylene Copolymer, Injection Molding Grade

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

### Material Notes:

This Pinnacle Polymers Polypropylene is made via UNIPOL™ PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physical properties and lot-to-lot consistency. Features: Superior color and processing stability Low odor Good flow and set-up behavior Excellent see-through clarity Excellent lot-to-lot consistency Applications: Injection molding applications that require high stiffness and excellent clarity Certifications: Pinnacle's polypropylene, as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938. Information provided by Pinnacle Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pinnacle-Polymers-5112-C-Clarified-Random-Polypropylene-Copolymer-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_Pinnacle-Polymers-5112-C-Clarified-Random-Polypropylene-Copolymer-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	12 g/10 min	12 g/10 min	Condition L 230/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.7 MPa @Thickness 3.20 mm	4600 psi @Thickness 0.126 in	At 51mm/min, injection molded ASTM Type 1 specimen; ASTM D638
Elongation at Yield	12 % @Thickness 3.20 mm	12 % @Thickness 0.126 in	At 51mm/min, injection molded ASTM Type 1 specimen; ASTM D638
Flexural Modulus	1.31 GPa @Thickness 3.20 mm	190 ksi @Thickness 0.126 in	At 1.27 mm/min, 1% secant, injection molded ASTM Type 1 specimen; ASTM D790A
Izod Impact, Notched	0.481 J/cm @Thickness 3.20 mm, Temperature 22.8 °C	0.900 ft-lb/in @Thickness 0.126 in, Temperature 73.0 °F	injection molded ASTM Type 1 specimen; ASTM D256

Optical Properties	Metric	English	Comments
Haze	8.0 % @Thickness 1.27 mm	8.0 % @Thickness 0.0500 in	plaque

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