

## Polyintec® PPR12C-10

### Clarified Polypropylene Random Copolymer for Injection Molding

#### Product Description:

Polyintec® PPR12C-10 is a clarified, antistatic polypropylene random copolymer with a medium melt flow rate, designed primarily for injection molding and stretch blow molding applications. This material offers excellent clarity, good impact strength, and dimensional stability. It is formulated to meet the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

#### Suggested Applications:

Injection molded containers, Stretch blow molded bottles, Housewares, Food packaging, Lids and closures.

#### Nominal Physical Properties:

Property	Values (English Units)	Values (SI Units)	ASTM Method
<b>Resin</b>			
Density	0.903 g/cc	0.903 g/cc	D792
Melt Flow Rate (230°C/2.16 kg)	12 g/10 min	12 g/10 min	D1238
<b>Injection Molded Sample</b>			
Tensile Strength @ Yield (2 in/min)	4,527 psi	31.2 MPa	D638
Tensile Strength @ Break (2 in/min)	2,560 psi	17.6 MPa	D638
Elongation @ Yield (2 in/min)	13 %	13 %	D638
Elongation @ Break (2 in/min)	200 %	200 %	D638
Flexural Modulus (1% Secant)	168,000 psi	1,157 MPa	D790A
Notched Izod Impact Strength @ 23°C	1.2 ft-lbf/in	6.2 kJ/m <sup>2</sup>	D256
Notched Izod Impact Strength @ 4°C	0.5 ft-lbf/in	3.6 kJ/m <sup>2</sup>	D256
Hardness (Rockwell R)	84	84	D785
Vicat Softening Point	267.8 °F	131 °C	D1525
Deflection Temperature @ 66 psi (455 kPa)	176 °F	80 °C	D648
Haze (@ 23°C, 50-mil (1.3mm) plaque)	11.2%	11.2%	D1003
Gloss,60° angle	97.5	97.5	D2457

#### Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Users should perform their own tests to determine the suitability of this product for their own particular purposes. The information is only the opinion of the provider and the provider make no warranty of any kind. The provider isn't liable for any use of this product.