

Inno-Comp INNOPOLÂ® CS 1-3000 N DEL Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

INNOPOLÂ® CS 1-3000 N DEL is developed for producing injection molded automotive components. All information provided by INNO-COMP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Inno-Comp-INNOPOL-CS-1-3000-N-DEL-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc @Temperature 23.0 Â°C	0.0332 lb/inÂ³ @Temperature 73.4 Â°F	ISO 1183
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	7.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	36.0 MPa	5220 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1,-2
Elongation at Yield	8.0 %	8.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	1.69 GPa	245 ksi	1 mm/min; ISO 527-1,-2
Flexural Modulus	1.82 GPa	264 ksi	2 mm/min; ISO 178
Charpy Impact Unnotched	1.70 J/cmÂ² @Temperature -30.0 Â°C	8.09 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 179/1eU
Charpy Impact, Notched	0.120 J/cmÂ² @Temperature -30.0 Â°C	0.571 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	0.400 J/cmÂ² @Temperature 23.0	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Mechanical Properties	°C Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	163 °C	325 °F	DSC; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ISO 75-1,-2
Vicat Softening Point	96.0 °C	205 °F	B120; ISO 306
	153 °C	307 °F	A120; ISO 306
Flammability, UL94	HB	HB	FMVSS 302
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Descriptive Properties	Value	Comments
Automotive Materials	Pass	FMVSS 302
Color	Natural	

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