

Noble Polymers Forte™ 12HPP093 Nanocomposite

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Forte is a polypropylene-based nanocomposite produced by Noble Polymers. It is one of the first commercialization of nanocomposites in the automotive industry and can be used in a variety of applications replacing talc-filled, glass-filled or virgin polypropylene. Information provided by Noble Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Noble-Polymers-Forte-12HPP093-Nanocomposite.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.926 g/cc	0.926 g/cc	ASTM D792
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	ASTM D955
Melt Flow	10.4 g/10 min @Load 2.16 kg, Temperature 230 °C	10.4 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.36 MPa	5853 psi	ASTM D638
Elongation at Break	13.6 %	13.6 %	ASTM D638
Izod Impact, Notched	0.715 J/cm @Temperature 23.0 °C	1.34 ft-lb/in @Temperature 73.4 °F	ASTM D256
Tangent Modulus	2560 MPa	371000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	119.0 °C	246.2 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.00 °C	141.8 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	191 - 218 °C	375 - 425 °F	
Ejection Temperature	26.7 - 54.4 °C	80.0 - 130 °F	Water Temperature

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