

## Noble Polymers Forte™ 18CPP091 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-18CPP091-Nanocomposite.php](http://www.lookpolymers.com/polymer_Noble-Polymers-Forte-18CPP091-Nanocomposite.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.928 g/cc	0.928 g/cc	ASTM D792
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM D955
Melt Flow	16.6 g/10 min @Load 2.16 kg, Temperature 230 °C	16.6 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.70 MPa	3148 psi	ASTM D638
Elongation at Break	22.2 %	22.2 %	ASTM D638
Izod Impact, Notched	0.603 J/cm @Temperature 23.0 °C	1.13 ft-lb/in @Temperature 73.4 °F	ASTM D256
Tangent Modulus	1790 MPa	260000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.00 °C	197.6 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °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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