Shinil Chemical SHINNANO PP Polymer Nanocomposite Door Trim

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SHINNANO is the product line of polymer nanocomposite made by dispersing nano fillers, mainly, NANOCLAY. Recently, Shinil has developed varios nanocomposite grades for automotive applications using Shinil's proprietary dispersion technology combined with the customized nanoclay. Shinil's SHINNANO offers unique properties compared to conventional polymer compounds. Nanocomposite products of SHINNANO provide not only high performance but also the lighter weight (10-20%).SHINNANO uses various engineering polymers to produce functional nanocomposite grades. Nanoclays are incorporated during the melt compounding. The clay particles are exfoliated during processing, which leads to nano-size platelets. Although this process is challenging, owing to unique dispersion technique that is developed for nano materials, Shinil produces high performance nanocomposites with less use of nano fillers. SHINNANO grades are available for automotive parts such as bumper, instrument panel, door trim, engine cover, cylinder head cover, and air intake manifold.Feature and BenefitsLighter weightHigh stiffnessHigh HDTHigh modulusImproved surfaceImproved melt strengthRecyclabilityAvailable for injection modling, extrusion or film makingCost effectiveGood barrier propertyInformation Provided by Shinil Chemical Industry Co., Ltd.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Shinil-Chemical-SHINNANO-PP-Polymer-Nanocomposite-Door-Trim.php

Physical Properties	Metric	English	Comments
Specific Gravity	<= 1.00 g/cc	<= 1.00 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.0 MPa	3910 psi	
Elongation at Break	11 %	11 %	
Flexural Strength	37.77 MPa	5478 psi	
Flexural Modulus	1.67 GPa	242 ksi	
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	

Processing Properties	Metric	English	Comments
Processing Temperature	210 Â°C	410 Â°F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China