

LG Chemical HYPERIER IP1306B PA-HDPE Nanoclay Compound

Category : Polymer , Thermoplastic , Nylon , Polyethylene (PE) , HDPE

Material Notes:

HYPERIER is a nano compound made from nano-sized inorganic plate clay. Blow Molding, Barrier thermoplastic, Nylon blend with HDPE
Application: Agrochemical Container, SORE* Fuel Tank, PFCCAS No. 9002-88-4 and 25038- 54- 4
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-HYPERIER-IP1306B-PA-HDPE-Nanoclay-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Blow Molding
Melt Flow	0.35 - 0.40 g/10 min @Load 2.16 kg, Temperature 190 Â°C	0.35 - 0.40 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.05 MPa @Thickness 3.20 mm	3633 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	262.7 % @Thickness 3.20 mm	262.7 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	31.5 MPa @Thickness 6.40 mm	4570 psi @Thickness 0.252 in	10mm/min; ASTM D790
Flexural Modulus	0.8360 GPa @Thickness 6.40 mm	121.3 ksi @Thickness 0.252 in	10mm/min; ASTM D790
Izod Impact, Notched	0.667 J/cm @Thickness 6.40 mm, Temperature -40.0 Â°C	1.25 ft-lb/in @Thickness 0.252 in, Temperature -40.0 Â°F	ASTM D256
	6.41 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	12.0 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	175 - 215 Â°C	347 - 419 Â°F	Blow Molding
Middle Barrel Temperature	175 - 215 Â°C	347 - 419 Â°F	Blow Molding

Processing Properties	Metric	English	Comments
From Barrel Temperature	175 - 215 Â°C	347 - 419 Â°F	Blow Molding
Die Temperature	175 - 215 Â°C	347 - 419 Â°F	Blow Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Blow Molding
Head Temperature	175 - 215 Â°C	347 - 419 Â°F	Blow Molding
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	Blow Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Blow Molding
Screw Speed	10 - 50 rpm	10 - 50 rpm	Blow Molding

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