Hybrid Plastics CO6U50.01 NanoreinforcedÂ® Cyclic Olefin Copolymer

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

Impact modified, UV stabilizedThe exceptional heat distortion temperature and low density of cyclic olefin copolymers (COC) makes them excellent materials for high temperature applications where low weight is desired. Hybrid Plastics offers POSS-modified COC plastics that are tough, weather resistant and easily processed. These materials do not use fillers. They exhibit some of the highest heat distortion temperatures at the lowest densities available on the market today. Other modifications are available, so please inquire if there is need for a low density, high temperature material for the application.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hybrid-Plastics-CO6U5001-Nanoreinforced-Cyclic-Olefin-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/inÂ³	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	13 %	13 %	
Flexural Modulus	1.70 GPa @Temperature 130 Â°C	247 ksi @Temperature 266 Â°F	
	2.40 GPa @Temperature 40.0 Â°C	348 ksi @Temperature 104 Â°F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	155 Â°C	311 Â°F	
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	
Middle Barrel Temperature	250 - 300 Â°C	482 - 572 Â°F	
Front Barrel Temperature	260 - 310 Â°C	500 - 590 Â°F	
Nozzle Temperature	250 - 310 Â°C	482 - 590 Â°F	
Mold Temperature	90.0 - 115 Â°C	194 - 239 Â°F	

Descriptive Properties	Value	Comments
Color	Dark Green	

Contact Songhan Plastic Technology Co.,Ltd.

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