

Hybrid Plastics CO6U50.02 Nanoreinforced® Cyclic Olefin Copolymer

Category : Polymer , Thermoplastic , Cyclo Olefin Polymer

Material Notes:

Impact modified, flame retardant The 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-CO6U5002-Nanoreinforced-Cyclic-Olefin-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	6.0 %	6.0 %	
Tensile Modulus	1.25 GPa	181 ksi	
Flexural Modulus	1.70 GPa	247 ksi	
	@Temperature 130 Â°C	@Temperature 266 Â°F	
	2.70 GPa	392 ksi	
	@Temperature 40.0 Â°C	@Temperature 104 Â°F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	155 Â°C	311 Â°F	
Flammability, UL94	V-2	V-2	
	@Thickness 3.20 mm	@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	

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Descriptive Properties	Value	Comments
Color	Dark Green	

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