

Hybrid Plastics Nanoreinforced[®] Cellulose Propionate Acetate

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Cellulosic , Cellulose Acetate Propionate, Molded

Material Notes:

Nanoreinforced[®] Cellulose Propionate Acetate is an optically clear nanocomposite with POSS[®] dispersed at the nanometer level. Compared to virgin cellulose propionate acetate, it enhances mechanical properties and high use temperatures while maintaining the clarity of cellulose propionate acetate. Other property improvements include fire retardancy, water/oxygen permeation, and oil-chemical resistance. Information provided by Hybrid Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hybrid-Plastics-Nanoreinforced-Cellulose-Propionate-Acetate.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.00 MPa	1160 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	23.0 MPa	3340 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Yield	25 %	25 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	160 %	160 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Tensile Modulus	1.05 GPa	152 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.40 GPa	203 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	94.0 Â°C	201 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.4711	1.4711	
	@Wavelength 644 nm	@Wavelength 644 nm	
Transmission, Visible	71 - 81 %	71 - 81 %	

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