

CPC - Vycom Ultra White™ PVC Advanced, UV (Ultra Violet) resistant sheet

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Ultra White is an advanced PVC formulation designed specifically for outdoor applications where resistance to ultraviolet (UV) degradation is critical. Tests show that Ultra White retards both surface oxidation and loss of physical and mechanical properties which result from exposure to solar radiation (sunlight). Performance tests indicate that Ultra White is up to eight times more resistant to UV damage than comparable PVC materials. FEATURES AND BENEFITS UV Stable- Ultra White has a unique formulation that includes more "UV stabilizers" to effectively resist solar degradation. High Gloss- Ultra White has a high gloss finish that reduces absorption of heat energy which is another factor for damage from exposure to sunlight. Color- Ultra White has a bright white color that makes an ideal base color for printing and graphics. Strength- Ultra White has a high strength-to-weight ratio that assures extra wear resistance in applications which may be subjected to high impact stress. Workability- Ultra White has excellent machinability that allows it to be used for a wide variety of applications which may require forming, shaping and other fabricating operations. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-Ultra-White-PVC-Advanced-UV-Ultra-Violet-resistant-sheet.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Tensile Modulus	2.83 GPa	411 ksi	ASTM D638
Flexural Strength	88.3 MPa	12800 psi	Yeild; ASTM D790
Flexural Modulus	3.32 GPa	481 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 μm/m-°C	32.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	81.7 °C	179 °F	ASTM D648
Deflection Temperature at 1.8 MPa	80.0 °C	176 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	82.8 °C	181 °F	ASTM D1525
Flammability, UL94	V-0	V-0	
Flame Spread Index	15	15	ASTM E84

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.40e+15 ohm-cm	5.40e+15 ohm-cm	ASTM D257
Dielectric Constant	3.19 @Frequency 60 Hz	3.19 @Frequency 60 Hz	ASTM D150
Dielectric Strength	21.4 kV/mm	544 kV/in	ASTM D149
Dissipation Factor	0.0096 @Frequency 60 Hz	0.0096 @Frequency 60 Hz	ASTM D150
Dielectric Loss Index	0.030	0.030	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Class B	ASTM D1784
Flammability	Self-Extinguishing	ASTM D635

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