

Chengdu Polyster KLX-G11 PC Film & Sheet

Category : Polymer , Film , Thermoplastic , Polycarbonate (PC)

Material Notes:

PC film and sheet, high transparency, both sides are polished, both sides with transparent protective films. Is printable, flame-retardant, anti-static, resists ultraviolet decay, scratch resistant, sunglass, sunbonnet, electroplate, .Information provided by Chengdu Polyster Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chengdu-Polyster-KLX-G11-PC-Film-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	23 to 24 hours; ASTM D570
Thickness	3.17 - 25.4 microns	0.125 - 1.00 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM D882
Elongation at Break	140 %	140 %	ASTM D882
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Izod Impact, Notched	7.00 - 8.60 J/cm	13.1 - 16.1 ft-lb/in	Izod tape gap; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM D117
Maximum Service Temperature, Air	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	
Flammability, UL94	V-2	V-2	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Shrinkage	0.50 - 0.70 %	0.50 - 0.70 %	

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	ASTMD542
	3.0 %	3.0 %	

Haze Optical Properties	Metric @Thickness 1.00 mm	English @Thickness 0.0394 in	ASTMD1003 Comments
Transmission, Visible	89 % @Thickness 1.00 mm	89 % @Thickness 0.0394 in	ASTMD1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Strength	30.0 kV/mm @Thickness 1.60 mm	762 kV/in @Thickness 0.0630 in	ASTM D149
Arc Resistance	110 sec @Frequency 1.00e+6 Hz	110 sec @Frequency 1.00e+6 Hz	ASTM D495

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