

Chengdu Polyster KLX-G42 PC Film & Sheet

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

Material Notes:

PC film, high transparency, one side is velvet the other side is matte. Information provided by Chengdu Polyster Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chengdu-Polyster-KLX-G42-PC-Film-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	<= 0.40 %	<= 0.40 %	ASTM D570
Thickness	3.17 - 25.4 microns	0.125 - 1.00 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 55.0 MPa	>= 7980 psi	ASTM D882
Elongation at Break	>= 90 %	>= 90 %	ASTM D882
Modulus of Elasticity	2.00 GPa	290 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	ASTM D1117
Vicat Softening Point	135 °C	275 °F	ASTM D1525
Brittleness Temperature	-130 °C	-202 °F	ASTM D746
Flammability, UL94	V-2	V-2	
	@Thickness 0.500 mm	@Thickness 0.0197 in	
Shrinkage	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Shrinkage	<= 0.30 %	<= 0.30 %	ASTM D1204

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

Electrical Properties	2.98 Metric	2.98 English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	2.98	2.98	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Arc Resistance	>= 100 sec	>= 100 sec	ASTM D495

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