

Lushan EV1050G1 EVA Film for Encapsulating Solar modules, Ultra Fast Cure

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

EVA film for encapsulating solar modules Lushan EV1050G1 is mainly used for PV module encapsulation. It's based on an ethylene vinyl acetate (EVA) copolymer and supplemented by special Chemical Accessories. EVA film for encapsulating solar modules Lushan series could effectively protect to the PV cell, and has excellent performance of transmittance and ageing-resistant. It provides structural support, electrical isolation, physical isolation/protection, and thermal conduction for solar circuits, as well as to maximize the service life of solar module. Solar EVA Film Characteristic: High volume resistivity and lasting adhesion strength holding capacity, and insure PV modules have long service life. Low yellowness index change and low light transmittance attenuation, insure the high service efficiency of PV modules. Excellent compatibility with flux, welding ribbon, location tap, backsheet and silica gel. Solar EVA film quality stability ensured by the complete and scientific quality management system. Information provided by Lushan

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lushan-EV1050G1-EVA-Film-for-Encapsulating-Solar-modules-Ultra-Fast-Cure.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62:2008
Melt Flow	17 - 27 g/10 min	17 - 27 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527-3
Elongation at Break	>= 500 %	>= 500 %	
Tensile Modulus	0.00500 GPa	0.725 ksi	Young's; ISO 527-3
Peel Strength	0.00105 kN/m	0.00599 pli	180° peel, peel speed is 100 mm/min
	@Time 5.04e+6 sec	@Time 1400 hour	
	0.00106 kN/m	0.00605 pli	180° peel, peel speed is 100 mm/min
	@Time 7.20e+6 sec	@Time 2000 hour	
	0.00115 kN/m	0.00656 pli	180° peel, peel speed is 100 mm/min
	@Time 2.88e+6 sec	@Time 800 hour	
	0.00120 kN/m	0.00685 pli	180° peel, peel speed is 100 mm/min
	@Time 3.24e+6 sec	@Time 900 hour	
	0.00150 kN/m	0.00856 pli	180° peel, peel speed is 100 mm/min
	@Time 0.000 sec	@Time 0.000 hour	

Thermal Properties	Metric	English	Comments
Melting Point	65.0 - 75.0 Â°C	149 - 167 Â°F	ASTM D148
Shrinkage, MD	<= 4.0 %	<= 4.0 %	Q/LSXC
	@Temperature 120 Â°C, Time 180 sec	@Temperature 248 Â°F, Time 0.0500 hour	
Shrinkage, TD	<= 0.50 %	<= 0.50 %	Q/LSXC
	@Temperature 120 Â°C, Time 180 sec	@Temperature 248 Â°F, Time 0.0500 hour	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Yellow Index	5.6 %	5.6 %	after heat and humidity aging (85Â°C, 85 RH%)
	@Time 0.000 sec	@Time 0.000 hour	
	5.8 %	5.8 %	
	@Time 0.000 sec	@Time 0.000 hour	
	6.3 %	6.3 %	
	@Time 2.88e+6 sec	@Time 800 hour	
	7.0 %	7.0 %	after heat and humidity aging (85Â°C, 85 RH%)
	@Time 3.60e+6 sec	@Time 1000 hour	
	8.2 %	8.2 %	
	@Time 7.20e+6 sec	@Time 2000 hour	
	8.2 %	8.2 %	after heat and humidity aging (85Â°C, 85 RH%)
	@Time 7.20e+6 sec	@Time 2000 hour	
UV Transmittance	>= 91 %	>= 91 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	ASTM D150

Descriptive Properties	Value	Comments
Surface Uncured	One Side Embossed	
Thickness Tolerance	Â±0.02	Q/LSXC

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