



Description

CPP Solar is a US manufacturer and a global supplier of photovoltaic backsheets and frontsheets. Our HYPERION™G frontsheets comprises of ECTFE film for use in photovoltaic panel manufacturing as an alternative to glass.

HYPERION™G frontsheet is a strong, hard, tough, abrasion resistant film that is dimensionally stable over a broad range of temperatures. It has a high wear resistance and outstanding flexural and tensile properties.

Advantages of HYPERION™ G

- Excellent moisture barrier
- High resistant to UV radiation
- High transmittance (>90%)
- Long term weatherability
- Withstanding long term aging
- Lower permeation rates
- Flexible thin film technology

NOMINAL PROPERTIES

PHYSICAL AND THERMAL PROPERTIES	TYPICAL VALUES		TEST METHOD
THICKNESS RANGE	50 um, 100 um, or custom		
THERMAL CONDUCTIVITY @ 40°C	0.15 W/(mK)		ASTM C117
Water Vapor Transmission Rate @ 38°C and 90% RH for a 50um film cast film	1.6 g/m ² ·d		ASTM F1249
MECHANICAL PROPERTIES	MD	TD	
ELONGATION AT BREAK @ 23°C	280%	280%	ASTM D882
MODULUS @ 23°C	1,550 MPa	1,500 MPa	ASTM D882
FREE SHRINK % @200°C	4.4%	0%	30 MIN IN OVEN
ELECTRICAL PROPERTIES			
SURFACE RESISTIVITY @ 23°C	>10 ¹⁷ Ohm		ASTM D257
VOLUME RESISTIVITY @ 23°C	6·10 ¹⁶ Ohm·Cm		ASTM D257
VOLUME RESISTIVITY @ 80°C	4·10 ¹⁵ Ohm·Cm		
VOLUME RESISTIVITY @ 130°C	2·10 ¹³ Ohm·Cm		

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