

Honeywell PowerShield[®] 3W

Description		Effective Date 05/01/12		
Nominal 309 µm (12.2 mil) semi-gloss white composite film structure specifically designed as a durable dielectric backsheet for crystalline Si photovoltaic modules rated for up to 1000 VDC system voltage				
Properties of 309 µm composite at 73°F & 50% RH		Typical Value English	Metric	Test Method
Yield		13.36 ft ² /lb.	2.73 m ² /kg	Honeywell
Reflectance (average 400-800 nm)		85%	85%	ASTM E424
60° Gloss (ECTFE side)		60-66 ± 5	60-66 ± 5	ASTM D2457
Breakdown Voltage		20,680 VDC	20,680 VDC	ASTM D149
Partial Discharge		1,138 VDC	1,138 VDC	IEC 60664-1
Dimensional Stability 30 mins. @ 302°F(150°C)	- MD -TD	<1.5 % <1.0 %	<1.5 % <1.0 %	ASTM D1204
Tensile Strength	-MD -TD	162 lbf/in 160 lbf/in	292 N/10mm 288 N/10mm	ASTM D882
Elongation @ break	-MD -TD	266 % 196 %	266 % 196 %	ASTM 882
Modulus (secant)	-MD -TD	173 Kpsi 179 Kpsi	1,193 Mpa 1,232 Mpa	ASTM D882
Peel Strength EVA* initial		>46 lb/in	>80 N/cm	ASTM D903
Inner Layer Laminate Peel Strength		>2.6 lb/in	>4 N/cm	ASTM D1876
Outer Layer Laminate Peel Strength		>2.6 lb/in	>4 N/cm	ASTM D1876
Water Vapor Transmission Rate @ 100°F (37.8°C) /100% RH		.089 g/100in ² /day	1.38 g/m ² /day	ASTM F1249

* FAST CURE EVA 150C conditions

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The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

Order and Sales Information

Honeywell Specialty Films Customer Service
Specialty Materials Commercial Excellence
Meyer 1
101 Columbia Road
Morristown, NJ 07962
Tel: (800) 9-FILMS-9
Fax: (800) 455-0040

Honeywell (Europe)
Specialty Films
Haasrode Research Park
B 3001, Heverlee (Leuven)
Belgium
Tel: 32 16 391 211
Fax: 32 19 391 363

Honeywell (Asia)
Specialty Films
4th Floor, No.1 Building
430 Li Bing Road, Zhang Jiang Hi-Tech Park
Shanghai 201203, P.R.China
Tel: 0086-21-28943063
Fax: 0086-21-58553543

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