

EUROPLEX® Film HPF 99211

Polyphenylsulfone
Evonik Industries AG

Message:

The base material for this clear film is amorphous polyphenyl sulphone. It meets FDA and USP requirements making it suitable for food contact and medical applications.

In addition to its excellent thermal and mechanical properties, this film is particularly highly resistant to hydrolysis and withstands multiple sterilization by all conventional methods.

The transparent material exhibits an exceptionally high refractive index. It can be produced with excellent surface quality to meet demanding optical requirements.

General Information			
Features	Amorphous		
	Flame Retardant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Sterilizability		
	Hydrolysis Resistant		
	Outstanding Surface Finish		
Uses	Medical/Healthcare Applications		
Agency Ratings	FDA Unspecified Rating		
	USP Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Film		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Dimensional Stability			ASTM D1042
Across Flow, 180°C	0.0	%	
Across Flow, 220°C	0.30	%	
Flow, 180°C	0.0	%	
Flow, 220°C	2.5	%	
Water Absorption (Saturation, 23°C)	1.1	%	ISO 62
Films	Nominal Value	Unit	Test Method
Film Puncture Force ¹			
25 µm	50.0	N	
50 µm	100	N	
130 µm	210	N	
Tensile Stress			ISO 527-3/100

Yield, 25 μm	70.0	MPa	
Yield, 50 μm	75.0	MPa	
Yield, 130 μm	75.0	MPa	
Yield, 250 μm	75.0	MPa	
25 μm	70.0	MPa	
50 μm	75.0	MPa	
130 μm	80.0	MPa	
250 μm	80.0	MPa	
Tensile Elongation			ISO 527-3/100
Break, 25 μm	25	%	
Break, 50 μm	90	%	
Break, 130 μm	> 100	%	
Break, 250 μm	> 100	%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	222	°C	ISO 306/B
Service Temperature	190	°C	
Smoke Density	Pass		AITM 2.0007
Smoke Toxicity	Pass		AITM 3.0005
OSU Test			
HR : 250.0 μm	16.0	kW · min/m ²	FAR 25.853(d)
HRR : 250.0 μm	12.0	kW/m ²	AITM 2.0006
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.125 mm	VTM-1		
0.0500 mm	VTM-0		
Optical	Nominal Value		Test Method
Refractive Index	1.675		ISO 489
NOTE			
1.	MOD Def Stan 81-75		

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