

OXPEKK® Permetta™ Film SP

Polyetherketoneketone
Oxford Performance Materials, Inc.

Message:

Superior Electrical Properties
Highly Formable Matrix
High Tg
Flame Retardant UL94 V-0 Rated
OSU 65/65 Compliant
Excellent Adhesive Performance

General Information			
Features	Amorphous		
	Flame Retardant		
	Good Adhesion		
	Good Electrical Properties		
	Good Processability		
Agency Ratings	OSU 65/65		
Appearance	Amber		
Forms	Preformed Parts		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/8.4 kg)	35 to 45	g/10 min	ASTM D1238
Molding Shrinkage - Flow	< 0.50	%	ASTM D955
Water Absorption (24 hr)	< 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength			ASTM D638
Break ¹	11.9	MPa	
Break ²	17.9	MPa	
Break	89.6	MPa	
Break ³	6.96	MPa	
Break ⁴	9.51	MPa	
Break ⁵	10.5	MPa	
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength (Yield)	138	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695

Coefficient of Friction (vs. Itself - Static)	0.29		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
Glass Transition Temperature	154	°C	DSC
Melting Temperature	303	°C	DSC
CLTE - Flow (< 154°C)	7.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	75	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.10		ASTM D150
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	Stainless Steel		
2.	Steel		
3.	Galvanized Steel		
4.	Aluminum		
5.	Anodized Aluminum		

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