Dexnyl© PEEK SF Film Amorphous_16 **Technical Data Sheet**

Properties	Typical Value	Unit	Test method
Physical			
Specific Gravity	1.30		**ASTM D792**
Water Absorption (24 hr)	0.50	%	**ASTM D570**
Mechanical			
Tear Resistance	10.0	cN	**ASTM D1004**
Films			
Film Thickness - Tested	25/50/130	µm	
Secant Modulus			**ASTM D882**
MD	2050	MPa	
TD	2000	MPa	
Tensile Strength			**ASTM D882**
MD : Yield	75.8	MPa	
TD : field	72.4	MPa	
MD : Break	109	MPa	
TD : Break	95.8	MPa	
Tensile Elongation			**ASTM D882**
MD : Yield	6.8	%	
TD : Yield	6.7	%	
MD : Break	150	%	
TD : Break	**170**	**%**	
Films			
Dart Drop Impact	1300	g	**ASTM D1709B**
Area Factor	149	ft^2/lb/mil	
Tear Propagation Resistance	320	gf	**ASTM D1922**
Thermal			
Deflection Temperature Under Load 1.8 MPa, Annealed, 3.20 mm	157	°C	**ASTM D648**
Glass Transition Temperature	150	°C	**ASTM D3418**
Peak Melting Temperature	340	°C	**ASTM D3418**
CLTE - Flow (-50 to 50°C)	4.3E-5	cm/cm/°C	**ASTM E831**
Thermal Conductivity	0.24	W/m/K	**ASTM E1530**
Electrical			
Surface Resistivity	> 1.9E+17	ohms	**ASTM D257**
Volume Resistivity	2.6E+16	ohms cm	**ASTM D257**
Dielectric Strength (0.0500 mm)	150	kV/mm	**ASTM D149**
Dielectric Constant (1 kHz)	3.10		**ASTM D150**
Flammability			
Oxygen Index	**37**	**%**	**ASTM D2863**

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