

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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