



Material Data Sheet

Product: Thermoplastic polyester ether	Base Material: Film
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Description

Thermoplastic polyester ether (TPE) is both flexible and tear resistant in cold temperatures, TPE also displays a very low modulus grade and can be processed by many thermoplastic processing techniques like injection molding and extrusion.

Typical Properties

<u>Physical Properties</u>	<u>Test Method</u>	<u>Unit</u>	<u>Value</u>
Specific Gravity	ASTM D-792	g/cc	1.07
Water Absorption	Immersion 24 hrs ISO 62	%	0.500
Moisture Absorption at equilibrium	Equilibrium 50% RH, ISO 62	%	0.200
Water Absorption at Saturation	Saturation, Immersed ISO 62	%	0.800
<u>Mechanical Properties</u>			
Tensile Strength at Break	ISO 527	psi	3,480
Tensile Strength, Ultimate	ASTM D-638	psi	3,800
Tensile Strength, Yield	@ 5% Strain ASTM D-638	psi	189
Elongation at Break	ISO 527	%	>=300
<u>Electrical Properties</u>			
Volume Resistivity	IEC 60093	ohm-cm	9.00e+12
Surface Resistance	IEC 60093	ohm	2.00e+14
Dielectric Strength	IEC 60243-1	kV/in	457
Dissipation Factor	IEC 60250	-	0.007
<u>Thermal Properties</u>			
Melting Point	ASTM D-3418	°F	338
UL,RTI Electrical	UL 746B	°F	122
Flammability UL94	IEC 60695-11-10	-	HB
Oxygen Index	ISO 4589-1/-2	%	19.0

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application.

Base on terms and conditions

Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.

