

Riteflex® 447

Thermoplastic Polyester Elastomer

Celanese Corporation

Message:

Riteflex 447 is a nominal 47 Shore D thermoplastic polyester polyester elastomer with a high melting point and excellent mechanical properties.

General Information			
RoHS Compliance		Contact Manufacturer	
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.3 to 1.8	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	95.0	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	25.0	MPa	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Nominal Tensile Strain at Break	25	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	90.0	MPa	ISO 178
Flexural Stress			ISO 178
3.5% Strain	4.00	MPa	
23°C	6.00	MPa	
Elastomers	Nominal Value	Unit	Test Method
Bayshore Resilience	59	%	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	45	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	No Break		
23°C	No Break		
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Melting Temperature ¹	212	°C	ISO 11357-3
CLTE - Flow	2.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	IEC 60093

Volume Resistivity			
--	4.0E+12	ohms·cm	ASTM D257
--	4.0E+14	ohms·cm	IEC 60093
Dielectric Strength			
-- ²	12	kV/mm	ASTM D149
--	13	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.70		IEC 60250
Dissipation Factor (1 MHz)	0.030		IEC 60250
Comparative Tracking Index	600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	10°C/min		
2.	Method A (Short-Time)		

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