

Comco PEI

Polyether Imide
Comco Nylon GmbH

Message:

Application examples: Components for the electrical and electronics industries as well as for medical devices etc.

General Information			
Uses	Electrical components		
	Medical devices		
Appearance	Transparent amber		
Resin ID (ISO 1043)	PEI		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		DIN 53505
Ball Indentation Hardness	220	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	110	MPa	ISO 527-2
Tensile Strain (Break)	12	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Specific Heat	1100	J/kg/°C	DIN 52612
Thermal Conductivity	0.24	W/m/K	DIN 52612
Service Temperature			
Long Term	-50 - 170	°C	
Short Term		°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (100 Hz)	3.20		IEC 60250
Dissipation Factor (100 Hz)	1.5E-3		IEC 60250
Comparative Tracking Index (Solution A)	150	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
3.0 mm	V-0	UL 94
6.0 mm	V-0	UL 94

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