Roechling SUSTAPPE

Polyphenylene Ether

Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
High chemical resistance
Low creep tendency
Excellent rigidity
Typical fields of application
Vehicle construction
Electrical and electronic industries
Chemical industry

General Information	
Features	Good Chemical Resistance Good Creep Resistance High Rigidity
Uses	Automotive Applications Electrical/Electronic Applications

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.050	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	82		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	11	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Continuous Use Temperature			
-- [1]	-40.0 to 100	°C	
-- [2]	< 110	°C	
CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1200	J/kg/°C	DIN 52612
Thermal Conductivity	0.23	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant	2.80		IEC 60250
Dissipation Factor (50 Hz)	8.0E-3		IEC 60250
Comparative Tracking Index	450	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		

NOTE	
1.	Long Term
2.	Short Term

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