

Roechling SUSTAPVDF

Polyvinylidene Fluoride
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Very good UV resistance
 - High purity
 - Excellent chemical resistance
 - Typical fields of application
 - Chemical industry
 - Electrical and semiconductor industry
 - Food processing industry

General Information			
Features	Good Chemical Resistance		
	Good UV Resistance		
	High Purity		
Uses	Electrical/Electronic Applications		
	Food Service Applications		
	Non-specific Food Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.78	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Ball Indentation Hardness	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-30.0 to 140	°C	
-- 2	< 150	°C	
Melting Temperature	178	°C	ISO 11357-3
CLTE - Flow	1.4E-4	cm/cm/°C	DIN 53752

Specific Heat	1200	J/kg/°C	DIN 52612
Thermal Conductivity	0.20	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength	21	kV/mm	IEC 60243-1
Dielectric Constant	9.00		IEC 60250
Dissipation Factor (50 Hz)	0.020		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
NOTE			
1.	Long Term		
2.	Short Term		

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