

SUSTARIN® H

Acetal (POM) Homopolymer
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Excellent dimensional stability
- Low moisture absorption
- High wear-resistance
- Typical fields of application
- Mechanical engineering
- Vehicle construction
- Precision engineering

General Information			
Features	Good Dimensional Stability		
	Good Wear Resistance		
	Low Moisture Absorption		
Uses	Automotive Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		ISO 868
Ball Indentation Hardness	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-50.0 to 90.0	°C	
-- 2	< 150	°C	
Melting Temperature	175	°C	ISO 11357-3
CLTE - Flow	1.0E-4	cm/cm/°C	DIN 53752
Specific Heat	1500	J/kg/°C	DIN 52612

Thermal Conductivity	0.31	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	25	kV/mm	IEC 60243-1
Dielectric Constant	3.80		IEC 60250
Dissipation Factor (50 Hz)	2.0E-3		IEC 60250
Comparative Tracking Index	600	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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