

SUSTAMID 6 FR

Polyamide 6
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Free of halogen and phosphorus
 - Flame-resistant and self-extinguishing
 - High mechanical rigidity
 - Typical fields of application
 - Railway vehicle construction
 - Aviation industry

General Information			
UL YellowCard	E361506-101411760		
Features	Halogen Free		
	High Rigidity		
	Low (to None) Phosphorus Content		
	Self Extinguishing		
Uses	Aircraft Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		ISO 868
Ball Indentation Hardness	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 85.0	°C	
-- 2	< 160	°C	
Melting Temperature	222	°C	ISO 11357-3
CLTE - Flow	9.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093

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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