

SCHULAMID® 66/6 MT 20 K1849

Polyamide 66/6 Copolymer

Product Description

20% talc filled and impact modified Polyamide 66/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight		
Features	• Good Stiffness • Good Wear Resistance	• Medium Viscosity • Oil Resistant	
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
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Density	1.28	--	g/cm ³	ISO 1183/A
Water Absorption (73°F (23°C), 24 hr)	1.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
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Tensile Modulus	537000 (3700)	218000 (1500)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	7980 (55.0)	4790 (33.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	27	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
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Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.3 (9.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	5.7 (12)	9.5 (20)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
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Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	356 (180)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	149 (65.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	428 (220)	--	°F (°C)	ISO 306/A50
--	347 (175)	--	°F (°C)	ISO 306/B50

Electrical	Dry	Conditioned	Unit	Test Method
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Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093

Flammability	Dry	Conditioned	Unit	Test Method
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Burning Rate (0.0787 in (2.00 mm))	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
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Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.0591 in (1.50 mm)	HB	--		
0.118 in (3.00 mm)	HB	--		