

SCHULAMID® 66 SK 1000

Polyamide 66
A. Schulman Europe

Message:
Extrem high impact Polyamide 66

General Information				
UL YellowCard		E344659-101038374	E86615-252196	
Features		Low Temperature Toughness		
		Medium Viscosity		
		Oil Resistant		
		Ultra High Impact Resistance		
		Ultra High Toughness		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm³	ISO 1183/A
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	50.0	30.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	6.0	32	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 40	> 100	%	ISO 527-2/1A/50
Flexural Modulus ¹	1650	--	MPa	ISO 178
Flexural Stress ²	62.0	--	MPa	ISO 178
Flexural Strain at Flexural Strength	7.0	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	--	kJ/m²	
23°C	80	120	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	> 250	--	°C	ISO 306/A50
--	175	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	38	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	600	°C	
3.00 mm	--	600	°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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