

SCHULAMID® 6 MV SHI

Polyamide 6
A. Schulman Europe

Message:
High impact modified Polyamide 6

General Information				
UL YellowCard		E86615-252172		
Features		Grease Resistant		
		Medium Viscosity		
		Oil Resistant		
		Ultra High Impact Resistance		
		Ultra High Toughness		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	2.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1700	600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	50.0	30.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	> 200	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	--	kJ/m ²	
23°C	60 kJ/m ²	No Break		
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	125	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	210	--	°C	ISO 306/A50
--	165	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
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
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
3.00 mm	HB	--		

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