

SCHULAMID® 6 MV HI

Polyamide 6
A. Schulman Europe

Message:
Higher impact Polyamide 6 - standard grade

General Information				
UL YellowCard		E86615-252171		
Features		Grease Resistant		
		High Impact Resistance		
		Low Temperature Toughness		
		Medium Viscosity		
		Oil Resistant		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	2.3	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	110	60.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	800	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	60.0	35.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.2	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	> 100	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	16	60	kJ/m ²	
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	140	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	215	--	°C	ISO 306/A50
--	175	--	°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
Comparative Tracking Index	600	--	V	IEC 60112
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	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	650	°C	
3.00 mm	--	650	°C	

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