

SCHULAMID® 6 NV 12

Polyamide 6
A. Schulman Europe

Message:
Low viscosity Polyamide 6

General Information				
UL YellowCard		E86615-252173	E188844-102210965	
Features		Good Surface Finish		
		High Flow		
		Low Viscosity		
		Oil Resistant		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183/A
Water Absorption (Saturation, 23°C)	2.5	--	%	ISO 62
Viscosity Number	130	--	cm³/g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	140	85.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	85.0	45.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	18	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m²	
23°C	3.5	20	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	190	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	205	--	°C	ISO 306/A50
--	195	--	°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
1.50 mm	V-2	--		
3.00 mm	V-2	--		
0.750 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	850	°C	
3.00 mm	--	850	°C	

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