

SCHULAMID® 6 NV 12 FR

Polyamide 6
A. Schulman Europe

Message:
Low viscosity flame-retardant Polyamide 6 grade; halogen and phosphorus-free

General Information				
UL YellowCard		E86615-252174	E188844-102210966	
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
		Low Viscosity		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 FR()		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183/A
Viscosity Number	130	--	cm³/g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4200	1400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	70.0	40.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	15	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	5.0	kJ/m²	
23°C	4.0	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	218	--	°C	ISO 306/A50
--	203	--	°C	ISO 306/B50

Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746
0.750 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
RTI Imp				UL 746
0.750 mm	75.0	--	°C	
1.50 mm	75.0	--	°C	
3.00 mm	80.0	--	°C	
RTI Str				UL 746
0.750 mm	95.0	--	°C	
1.50 mm	95.0	--	°C	
3.00 mm	95.0	--	°C	
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
High Amp Arc Ignition (HAI)				UL 746
0.750 mm	PLC 3	--		
1.50 mm	PLC 3	--		
3.00 mm	PLC 2	--		
Hot-wire Ignition (HWI)				UL 746
19.1 mm	PLC 0	--		
38.1 mm	PLC 0	--		
76.2 mm	PLC 0	--		
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				ISO 3795
0.750 mm, Self-Extinguishing	0.0	--	mm/min	
1.50 mm, Self-Extinguishing	0.0	--	mm/min	
3.00 mm, Self-Extinguishing	0.0	--	mm/min	
Flame Rating				UL 94, IEC 60695-11-10, -20
0.380 mm	V-0	--		
0.750 mm	V-0	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.380 mm	960	--	°C	

0.750 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.380 mm	750	--	°C	
1.50 mm	750	--	°C	
3.00 mm	750	--	°C	
Oxygen Index	36	--	%	ISO 4589-2

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