

SCHULAMID® 6 MV 14 FR

Polyamide 6
A. Schulman Europe

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

General Information				
UL YellowCard		E86615-252169	E188844-102210963	
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
		Medium Viscosity		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA 6 FR()		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3400	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	38.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	28	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m²	
23°C	8.0	13	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	220	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	220	--	°C	ISO 306/A50
--	205	--	°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	80.0	--	°C	
1.50 mm	85.0	--	°C	
3.00 mm	85.0	--	°C	
RTI Str				UL 746
0.750 mm	105	--	°C	
1.50 mm	115	--	°C	
3.00 mm	155	--	°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 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746
0.750 mm	PLC 3	--		
1.50 mm	PLC 3	--		
3.00 mm	PLC 2	--		
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
0.750 mm	V-0	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.750 mm	960	--	°C	
1.50 mm	960	--	°C	

3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.750 mm	700	--	°C	
1.50 mm	700	--	°C	
3.00 mm	700	--	°C	
Oxygen Index	31	--	%	ISO 4589-2

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