

SCHULAMID® 6 MV 14 FR 4 K1681 BLACK

96.8076

Polyamide 6

A. Schulman Europe

Message:

Medium viscosity flame-retardant Polyamide 6 grade (V-2); without PBDE

General Information			
UL YellowCard	E188844-102210964		
UL File Number	E86615		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ISO 1183/A
Viscosity Number	129	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.3	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.3	kJ/m²	
23°C	4.7	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	38	kJ/m²	
23°C	40	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	178	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	56.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	211	°C	ISO 306/A50
--	195	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.400 mm	V-2		
0.800 mm	V-2		

1.60 mm	V-2		
3.20 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.380 mm	960	°C	
0.750 mm	930	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.380 mm	930	°C	
0.750 mm	930	°C	
1.50 mm	825	°C	
3.00 mm	825	°C	
Oxygen Index	22	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	< 240	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	80.0 to 140	MPa	
Injection Rate	Moderate		

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