Technical Data Sheet

SCHULAMID® 6 MV 13 F

Polyamide 6
Engineering Plastics

Product Description
medium viscosity PA 6, UL listed

General	
Features	• Medium Viscosity
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA6<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	421000 (2900)	160000 (1100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	12300 (85.0)	6530 (45.0)	psi (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
-22°F (-30°C)	2.4 (5.0)	2.4 (5.0)	ft·lb/in² (kJ/m²)	
73°F (23°C)	3.8 (8.0)	17 (35)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	No Break		
73°F (23°C)	No Break	No Break		
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	20300 (140)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	365 (185)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	154 (68.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	408 (209)	--	°F (°C)	ISO 306/A120
--	379 (193)	--	°F (°C)	ISO 306/B50
Ball Pressure Test (185°F (85°C))	Pass	--		IEC 60695-10-2

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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·m	IEC 62631-3-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate [1]				
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	FMVSS 302
Glow Wire Flammability Index	1560 (850)	--	°F (°C)	IEC 60695-2-12

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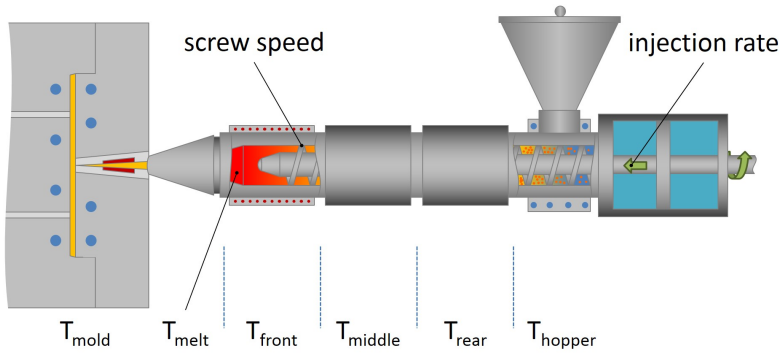

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C