Technical Data Sheet

SCHULAMID® 6 MV14 H MI

Polyamide 6
Engineering Plastics

Product Description
Medium viscosity Polyamide 6, heat stabilized, DryBlend

General	
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183/A
Viscosity Number				ISO 307
96% H2SO4 (Sulphuric Acid)	145	--	cm³/g	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	464000 (3200)	145000 (1000)	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)	5.0	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10	> 100	%	ISO 527-2/1A/50
Flexural Modulus [1]	464000 (3200)	--	psi (MPa)	ISO 178
Flexural Stress [1]				ISO 178
5.8% Strain	17400 (120)	--	psi (MPa)	
3.5% Strain	15200 (105)	--	psi (MPa)	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.4 (3.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	2.4 (5.0)	14 (30)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	--		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	338 (170)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	149 (65.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	419 (215)	--	°F (°C)	ISO 306/A50
--	392 (200)	--	°F (°C)	ISO 306/B50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302

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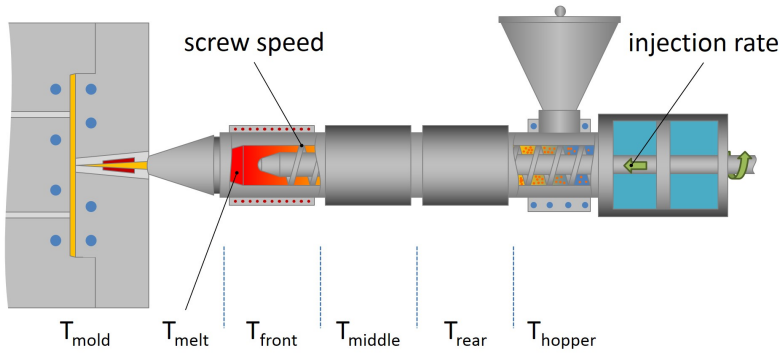

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.