Technical Data Sheet

SCHULAMID® 66 MV HI H2

Polyamide 66
Engineering Plastics

Product Description

High impact modified Polyamide 66, organic heat stabilization

General

Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	26	--	cm³/10min	ISO 1133
Viscosity Number				ISO 307
96% H2SO4 (Sulphuric Acid)	156	--	cm³/g	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	331000 (2280)	125000 (860)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress				ISO 527-2/1A/50
Yield	8410 (58.0)	5800 (40.0)	psi (MPa)	
Break	7400 (51.0)	6670 (46.0)	psi (MPa)	
Tensile Strain (Yield)	6.0	25	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	22	240	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	6.2 (13)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	31 ft·lb/in² (65 kJ/m²)	No Break	(kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	280 (138)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	120 (49.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	482 (250)	--	°F (°C)	ISO 306/A50
--	410 (210)	--	°F (°C)	ISO 306/B50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	1.2 (30)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.2 (30)	--	in/min (mm/min)	FMVSS 302

Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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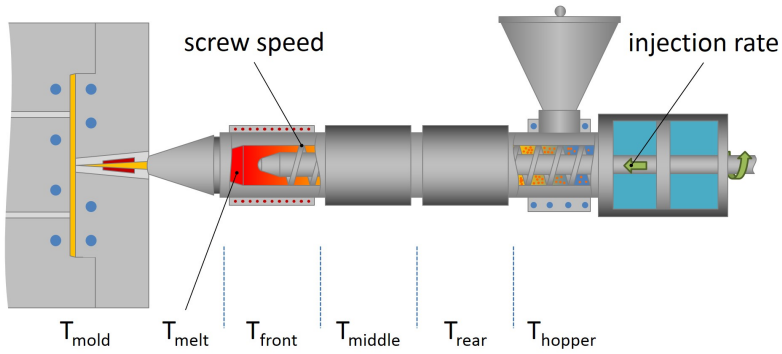

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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