Technical Data Sheet

SCHULAMID® 66 MV 3 HH

Polyamide 66
Engineering Plastics

Product Description
medium viscosity PA 66, heat stabilized

General		
Additive	• Heat Stabilizer	
Features	• Heat Stabilized	• Medium Viscosity
Automotive Specifications	• FORD WSK-M4D648-A	
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	435000 (3000)	218000 (1500)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	13100 (90.0)	10200 (70.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	15	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	3.3 (7.0)	2.4 (5.0)	ft·lb/in² (kJ/m²)	
73°F (23°C)	4.3 (9.0)	6.2 (13)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	45 ft·lb/in² (95 kJ/m²)	No Break	(kJ/m²)	
73°F (23°C)	71 ft·lb/in² (150 kJ/m²)	No Break	(kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	437 (225)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	194 (90.0)	--	°F (°C)	ISO 75-2/Af
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	1.0E+10	ohms·m	IEC 62631-3-1
Comparative Tracking Index	600	--	V	IEC 60112

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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
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-2	--		
Glow Wire Flammability Index	1700 (925)	--	°F (°C)	IEC 60695-2-12

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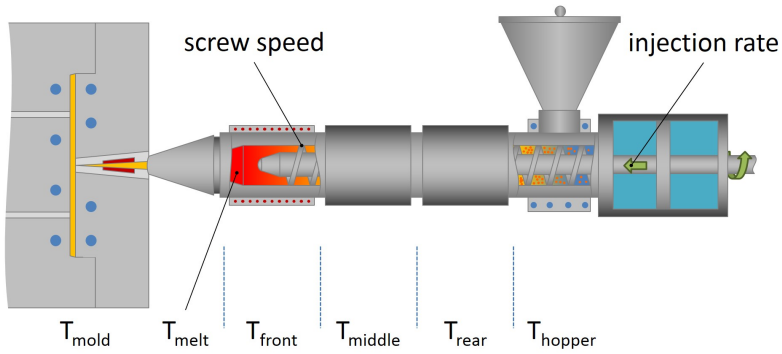

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

[1] Self-Extinguishing

Notes

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