Technical Data Sheet

SCHULAMID® 66 GF 30 GID K1802

Polyamide 66
Engineering Plastics

Product Description
30% glass fibre reinforced Polyamide 66, optimized for GID- processes

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.41E+6 (9700)	827000 (5700)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	25400 (175)	16000 (110)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.2	8.0	%	ISO 527-2/1A/5
Flexural Modulus	1.16E+6 (8000)	--	psi (MPa)	ISO 178
Flexural Stress	36300 (250)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	4.7	--	%	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1
-22°F (-30°C)	3.8 (8.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	6.2 (13)	9.0 (19)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				
--	--	47 (98)	ft·lb/in² (kJ/m²)	ISO 179/1U
-22°F (-30°C)	34 (72)	--	ft·lb/in² (kJ/m²)	ISO 179/1U
73°F (23°C)	38 (80)	--	ft·lb/in² (kJ/m²)	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	> 482 (> 250)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	468 (242)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	> 482 (> 250)	--	°F (°C)	ISO 306/A50 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
Glow Wire Flammability Index				IEC 60695-2-12
0.06 in (1.5 mm)	1200 (650)	--	°F (°C)	
0.12 in (3.0 mm)	1250 (675)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 in (1.5 mm)	1250 (675)	--	°F (°C)	
0.12 in (3.0 mm)	1290 (700)	--	°F (°C)	
Flammability	< 4 (< 100)	--	in/min (mm/min)	FMVSS 302

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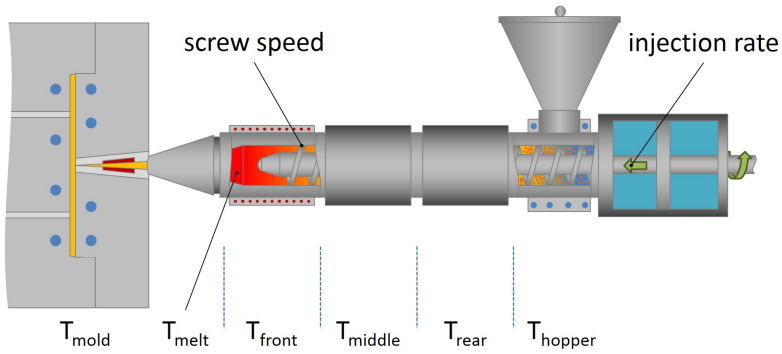

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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