Technical Data Sheet

Schulamid 66 GF 35

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description	
35% glass fiber reinforced PA 66	
General	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Appearance	• Colors Available
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66-GF<

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.40 g/cm³	1.40 g/cm³	ISO 1183/A
Viscosity Number	145 cm³/g	145 cm³/g	ISO 307
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	27600 psi	190 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527-2/1A/5
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	5.7 ft·lb/in²	12 kJ/m²	
73°f (23°c)	6.2 ft·lb/in²	13 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	36 ft·lb/in²	75 kJ/m²	
73°f (23°c)	43 ft·lb/in²	90 kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-40°f (-40°c)	5.7 ft·lb/in²	12 kJ/m²	
73°f (23°c)	3.8 ft·lb/in²	8.0 kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°f (-40°c)	31 ft·lb/in²	65 kJ/m²	
73°f (23°c)	33 ft·lb/in²	70 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	36300 psi	250 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	482 °F	250 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	482 °F	250 °C	ISO 75-2/Af
Ball Pressure Test (338°f (170°c))	Pass	Pass	IEC 60695-10-2
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	450 V	450 V	IEC 60112
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 In (2.00 Mm)	1.2 in/min	30 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.2 in/min	30 mm/min	FMVSS 302
Glow Wire Flammability Index	1110 °F	600 °C	IEC 60695-2-12

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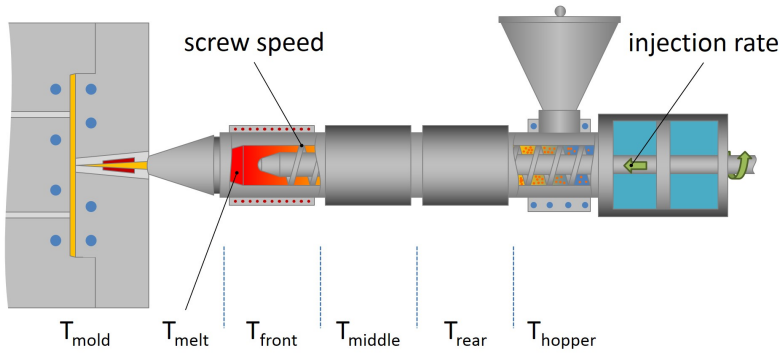

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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