

Technical Data Sheet

SCHULAREC PA 6 GF 35 H

Polyamide 6

Product Description

35% glass fiber reinforced and heat stabilized, recycled grade

General

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|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 35% Filler by Weight |
| Processing Method | • Injection Molding |

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density	1.38 to 1.42 g/cm ³	1.38 to 1.42 g/cm ³	ISO 1183/A
Molding Shrinkage			ISO 294-4
Across Flow	0.80 to 1.2 %	0.80 to 1.2 %	
Flow	0.30 to 0.50 %	0.30 to 0.50 %	
Water Absorption - (23°C, water)	6.0 to 7.0 %	6.0 to 7.0 %	ISO 62
Viscosity Number			ISO 307
96% H2SO4 (Sulphuric Acid)	125 to 145 cm ³ /g	125 to 145 cm ³ /g	
Humidity Absorption - (23°C, 50% R. H.)	1.5 to 2.2 %	1.5 to 2.2 %	ISO 62

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Modulus	1.44E+6 psi	9900 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	21000 psi	145 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.0 %	4.0 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Charpy Notched Impact Strength (73°F (23°C))	3.8 ft·lb/in ²	8.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	33 ft·lb/in ²	70 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Melting Temperature ¹	428 °F	220 °C	ISO 11357-3
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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating			ISO 1210
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Additional Information	Nominal Value (English)	Nominal Value (SI)
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Residual Humidity	< 0.20 %	< 0.20 %
1.) Not for use in food contact applications		
2.) Not for use in medical or pharmaceutical applications		

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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 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

¹ DSC

Notes

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