

Technical Data Sheet

Schulamid 6 GF 35 H BLACK 96.8001



Polyamide 6

Product Description

35% glass fiber reinforced PA 6, heat stabilized, recycled grade

Processing Method Injection Molding
Filler/Reinforcement Glass Fiber, 35%
Resin ID PA6 GF35 REC

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.41	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.3	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	6.0	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	150	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	90.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	11000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	6000	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	25	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	55	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	52	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	80	kJ/m ²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200	°C	ISO 75-2/A