

Technical Data Sheet

Circulen Recover EP PA6 GF50 H BLACK

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

50% glass fiber reinforced, heat stabilized Polyamide 6 formulated on mechanical recycled sourcing. The product is available in black color, pellet form.
Sustainability:
According with the requirements of Standard ISO 14021:2016, Circulen Recover EP PA6 GF50 H BLACK contains 25% of recycled material that is fully based on Post-Industrial Waste (PIW).

General

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Recycled Content	• Yes, 25%
Features	• Heat Stabilized • Medium Viscosity
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6 GF50

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.57 g/cm ³	1.57 g/cm ³	ISO 1183/A
Viscosity Number	130 cm ³ /g	130 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	2.32E+6 psi	16000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	29000 psi	200 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	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)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	6.2 ft·lb/in ²	13 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	31 ft·lb/in ²	65 kJ/m ²	
73°F (23°C)	36 ft·lb/in ²	75 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	446 °F	230 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	419 °F	215 °C	ISO 75-2/Af

Additional Information

The tradename "Schulamid" may be abbreviated "SAM" in documents or on labels, "Recover" may be abbreviated "RC".

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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	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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