

Technical Data Sheet

# Circulen Recover EP PA66 GF50 H BLACK

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

50% glass fiber reinforced, heat stabilized Polyamide 66 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 PA66 GF50 H BLACK contains 45% of recycled material that is fully based on Post-Industrial Waste (PIW).

**General**

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Recycled Content	• Yes, 45%
Features	• Heat Aging Resistant      • Medium Viscosity
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66 GF50

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.57 g/cm <sup>3</sup>	1.57 g/cm <sup>3</sup>	ISO 1183/A
Viscosity Number	140 cm <sup>3</sup> /g	140 cm <sup>3</sup> /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	2.39E+6 psi	16500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	31900 psi	220 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.3 %	2.3 %	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/in <sup>2</sup>	12 kJ/m <sup>2</sup>	
73°F (23°C)	6.7 ft·lb/in <sup>2</sup>	14 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	38 ft·lb/in <sup>2</sup>	80 kJ/m <sup>2</sup>	
73°F (23°C)	40 ft·lb/in <sup>2</sup>	85 kJ/m <sup>2</sup>	
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	473 °F	245 °C	ISO 75-2/ Af

**Additional Information**

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

Technical Data Sheet

# Circulen Recover EP PA66 GF50 H BLACK

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics



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.