

Technical Data Sheet

Circulen Recover EP PA66 MV SHI H BLACK

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

High impact modified, 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 MV SHI H BLACK contains 80% of recycled material that is fully based on Post-Industrial Waste (PIW).

General

Recycled Content	• Yes, 80%		
Features	• Heat Stabilized	• Impact Modified	• Medium Viscosity
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-I		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.09 g/cm ³	1.09 g/cm ³	ISO 1183/A

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0 %	5.0 %	ISO 527-2/1A/50

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 ²	12 kJ/m ²	
73°F (23°C)	26 ft·lb/in ²	55 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	329 °F	165 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	136 °F	58.0 °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	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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