

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 <sup>3</sup>	1.09 g/cm <sup>3</sup>	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 <sup>2</sup>	12 kJ/m <sup>2</sup>	
73°f (23°c)	26 ft·lb/in <sup>2</sup>	55 kJ/m <sup>2</sup>	
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.