



# CirculenRecover EP PA66 GF15 HI H BLK

## LyondellBasell Industries - Polyamide 66

### General Information

#### Product Description

Description: 15% glass fiber reinforced, impact modified, heat stabilized Polyamide 66 formulated on mechanical recycled sourcing. Automotive structural applications are possible. Sustainability: According with the requirements of Standard ISO 14021:2016, Circulen Recover EP PA66 GF15 HI H BLK contains minimum 15% pre-consumer recycled content.

#### General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer, 15%
Features	• Heat Stabilized • Impact Modified • Medium Viscosity
Processing Method	• Injection Molding
Resin ID	• PA66-I GF15

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	740000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	13800	psi	ISO 527-2/5
Tensile Stress Break, 73°F, 0.122 in, Injection Molded	13200	psi	ISO 527-2/5
Tensile Strain (Yield)	3.0	%	ISO 527-2/5
Tensile Strain (Break)	4.2	%	ISO 527-2
Flexural Modulus <sup>2</sup>	682000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
--	6.2	ft-lb/in <sup>2</sup>	
-40°F	2.9	ft-lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength	29	ft-lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	487	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	442	°F	ISO 75-2/ Af
CLTE - Flow	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	7.2E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	536 to 572	°F
Injection	Nominal Value	Unit
Mold Temperature	140 to 248	°F