

Technical Data Sheet

CirculenRecover EP PA6 GF30 HU BUE965057



Polyamide 6

Product Description

30% glass fiber reinforced, heat and UV stabilized Polyamide 6 formulated on mechanical recycled sourcing. The product is available in blue color, pellet form. Sustainability: According with the requirements of Standard ISO 14021:2016, CirculenRecover EP PA6 GF30 H U BUE 965057 contains 45% of recycled material that is fully based on pre-consumer waste. Recycled content according to DIN SPEC 91446:2021-12: R45 Data Quality Level according to DIN SPEC 91446:2021-12: DQL4 Data Quality Level according to VDA 284: DQL Automotive

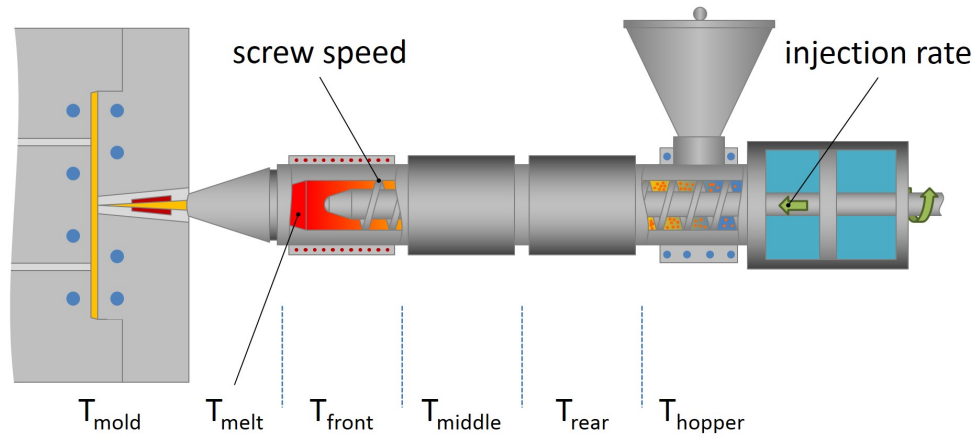
Regulatory Status

For regulatory compliance information, see *CirculenRecover EP PA6 GF30 HU BUE965057* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
Processing Method	Injection Molding
Attribute	Heat Stabilized; Medium Viscosity
Filler/Reinforcement	Glass Fiber, 30%
Resin ID	PA6 GF30

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.37	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.60 to 0.80	g/cm ³	ISO 60
Viscosity Number	150	cm ³ /g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	8.0	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	170	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	105	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	9700	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	5700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	21	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	80	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Thermal			

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	220 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200 °C	ISO 75-2/A
Flammable		
Burning Rate, (FMVSS 302)	<100 mm/min	FMVSS 302
Additional Information		
Water Absorption Sat/23C, - Conditioned	1.8 %	ISO 62
UL Information		
Flame Rating	HB	UL 94



Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	60 to 100	°C

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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