

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

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