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Technical Data Sheet

*Circulen*RECOVER EP PA6 GF 15H BLACK

Polyamide 6

Product Description

15% glass fiber reinforced, heat stabilized Polyamide 6 formulated on mechanical recycled sourcing. Standard color is black, color matching for dark colors possible. Automotive structural applications are possible.Sustainability:According with the requirements of Standard ISO 14021:2016, Circulen Recover EP PA6 GF15 H BLACK contains 60% of recycled material that is fully based on pre-consumer waste.Recycled content according to DIN SPEC 91446:2021-12: R60Data Quality Level according to DIN SPEC 91446:2021-12: DQL4Data Quality Level according to VDA 284: DQL Automotive

Processing Method	Injection Molding
Attribute	Heat Stabilized; Medium Viscosity
Filler/Reinforcement	Glass Fiber, 15%
Resin ID	PA6 GF15

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.24	g/cm³	ISO 1183
Apparent (Bulk) Density	0.60 to 0.80	g/cm³	ISO 60
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.8	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	115	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	5500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	35	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	210	°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
UL Information			
Flame Rating	HB		UL 94

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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