

Technical Data Sheet

CirculenRecover 320 PA6 MT30 8001



Polyamide 6

Product Description

30% mineral reinforced, 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, *CirculenRecover 320 PA6 MT30 8001* contains

20% of recycled material that is fully based on pre-consumer waste.

Recycled content according to DIN SPEC 91446:2021-12: R25

Data Quality Level according to DIN SPEC 91446:2021-12: DQL4

Data Quality Level according to VDA 284: DQL Automotive

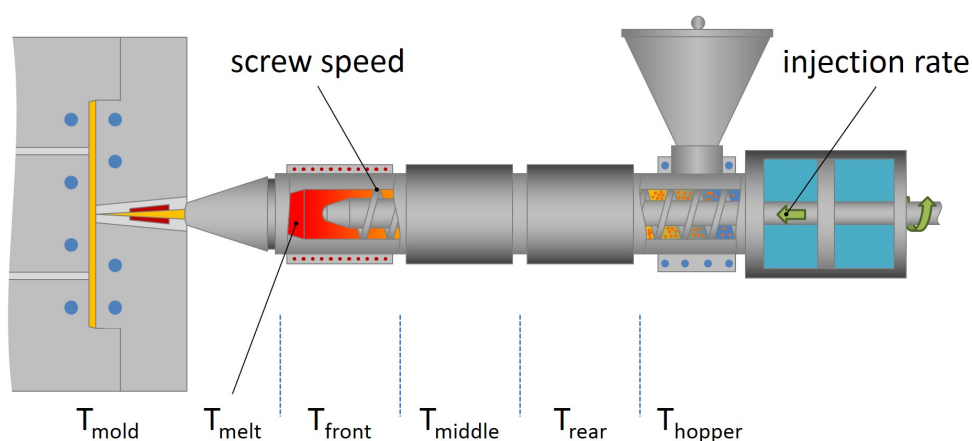
Regulatory Status

For regulatory compliance information, see *CirculenRecover 320 PA6 MT30 8001* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Europe
Processing Method	Injection Molding
Attribute	Low Warpage; Medium Viscosity
Filler/Reinforcement	Talc, 30%
Resin ID	PA6-T30

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.36	g/cm ³	ISO 1183
Viscosity Number	145	cm ³ /g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.0	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	15	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	73.0	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	45.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	6500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3300	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	8.0	kJ/m ²	ISO 179

Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	40	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	60	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	200	°C	ISO 306
(A (10N), 50 °C/h)	215	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	200	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	100	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	48	mm/min	FMVSS 302
(2.00 mm)	48	mm/min	ISO 3795



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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