

Technical Data Sheet

CirculenRecover PP300U Ivory HP



Polypropylene, Impact Copolymer

Product Description

CirculenRecover PP300U Ivory HP is a circular polypropylene copolymer supplied in pellet form for injection moulding applications. The grade combines very high flow, stiffness and impact. The grade is available in ivory color sorted from municipal plastic waste.

ROHS declaration is available on request.

Sustainability

According with the requirements of Standard ISO 14021:2016, CirculenRecover PP300U Ivory HP contains at least 98 % of recycled material that is fully based on Post-Consumer Waste (PCW) from pre-sorted municipal plastic waste. Filtration level is 150 µm. Volatiles according to ASTM D6980 @ 120 °C are < 0.2%.

This product is not intended for highly regulated applications including food contact, potable water contact, medical and pharmaceutical applications.

Status	Commercial: Restricted
Availability	Europe
Application	Containers; Crates; Furniture; Pails; TWIM Non-food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	General Purpose; Good Processability; High Flow; Impact Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	70	g/10 min	ISO 1133-1
Density	0.915	g/cm ³	ISO 1183-1
Bulk Density	0.620	g/cm ³	ISO 60
Mechanical			
Tensile Modulus, (23 °C)	1200	MPa	ISO 527-1, -2
Tensile Strength, (23 °C)	26	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179-1/1eA
Additional Information			
Ash 600 °C	< 2	wt %	ISO 3451-1

Notes

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

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

In cases where higher temperatures are required, please contact your appropriate technical contact for support.

Further Information

Health and Safety:

The resin is manufactured to the highest standards, but special requirements apply to certain applications such as food end-use contact and direct medical use. For specific information on regulatory compliance contact your local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention should be observed.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may generate a dense black smoke.

Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with, hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins are safe for continued use.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks.

Product Storage and Handling:

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affect the quality of this product
- Keep material completely dry for good processing

Company Information

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

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