Technical Data Sheet

Circulen EP348U Plus

Polypropylene, Impact Copolymer

Product Description

Circulen EP348U Plus is a circular polymer, which contains building blocks from non-mechanical recycling processes converting renewables and organic wastes into new cracker feedstock.
The bio content of recycled cracker feedstock is measured and certified on the Certificate of Analysis.

Circulen EP348U Plus is a nucleated, antistatic formulated, very high flow impact copolymer suitable for thin-walled injection molding applications.
Circulen EP348U Plus combines an excellent processability with a very good impact strength at low temperature.
Circulen EP348U Plus is typically used by customers for margarine tubs, packaging for dairy products, ice cream containers, lids, caps, housewares, toy boxes, flower pots and laundry baskets

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Caps & Closures; Housewares; Opaque Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Good Processability; High Impact Resistance; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	70	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Tensile Strain at Break	30	%	ISO 527-1, -2
Tensile Strain at Yield	4	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	3.2	kJ/m²	ISO 179
Ductile/Brittle Transition Temperature	-45	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness, (H 358/30)	50	MPa	ISO 2039-1
Thermal			

Vicat Softening Temperature			
(A/50 N)	150	°C	ISO 306
(B50)	65	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	92	°C	ISO 75B-1, -2
Optical			
Gloss, (60°)	65	%	ASTM D2457

Notes

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