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## **Technical Data Sheet**

## Circulen EP448T Plus

Polypropylene, Impact Copolymer



## **Product Description**

*Circulen* EP448T 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* EP448T Plus is a nucleated heterophasic copolymer with antistatic additivation used in injection moulding applications.

Circulen EP448T Plus has a high flow, good impact/stiffness balance.

Circulen EP448T Plus is typically used by customers in opaque containers, housewares, toys and closures.

This grade is not intended for medical and pharmaceutical applications.

Status Commercial: Active

Availability Africa-Middle East; Europe

Application Caps & Closures; Housewares; Opaque Containers; Sports, Leisure & Toys

Market Consumer Products; Rigid Packaging

Processing Method Injection Molding

Attribute Contains Antistat; High Flow; Impact Copolymer; Medium Impact Resistance; Medium

Stiffness; Nucleated

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	48	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break		%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
mpact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2