

Technical Data Sheet

Circulen HP483R



Polypropylene, Homopolymer

Product Description

Circulen HP483R is a circular polymer, which contains building blocks from non-mechanical recycling processes converting renewables and organic or plastic wastes into new cracker feedstock.

The content of recycled cracker feedstock is certified by mass balance.

Circulen HP483R is a polypropylene homopolymer with medium high melt flow rate, for usage in injection molding applications.

Circulen HP483R contains antistatic and slip agents, for easier demolding and low friction. It exhibits a good stiffness combined with a good dimensional stability.

Circulen HP483R is used in caps, closures and thin wall injection molding applications.

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Caps & Closures; Furniture; Housewares; Opaque Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; High Slip; Homopolymer; Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	27	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	3	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	68	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2