(+) 188 1699 6168 hongrunplastics.com

Technical Data Sheet

Circulen HP501H

Polypropylene, Homopolymer



Product Description

Circulen HP501H 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 HP501H is a polypropylene homopolymer for use in injection and compression molding applications. Circulen HP501H exhibits a good stiffness/impact balance at ambient temperature. It provides good hinge performances on caps, as well as good environmental stress cracking resistance. Circulen HP501H is used in caps, closures, sprayers, housewares and furniture.

This grade is not intended for medical and pharmaceutical applications.

Status Commercial: Active

Availability Africa-Middle East; Europe
Application Caps & Closures; Housewares

Market Consumer Products; Rigid Packaging

Processing Method Extrusion Blow Molding; Injection Molding; Thermoforming

Attribute General Purpose; Homopolymer; Medium Impact Resistance; Medium Stiffness

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.1	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1450	MPa	ISO 527-1, -2
Tensile Stress at Yield	33	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)	8	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	72	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

Notes

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