

Technical Data Sheet

Clyrell RC449S



Polypropylene, Specialty Products

Product Description

Clyrell RC449S is a clarified development polypropylene resin with antistatic additivation used in injection molding. It features an excellent combination of very high transparency and a good stiffness-impact balance that enables customers to achieve excellent organoleptic performance and a superior aesthetic appearance which appeals to end users.

Regulatory Status

For regulatory compliance information, see *Clyrell* RC449S [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

This grade is not intended for medical and pharmaceutical applications.

Status	Developmental
Availability	Africa-Middle East; Europe
Application	Clear Containers; Housewares; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Impact Resistance; Good Stiffness; High Transparency

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	40	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	11	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.2	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	1.5	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	5.5	%	ASTM D1003
Gloss, (60°)	140		ASTM D2457

Notes

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