

Technical Data Sheet

Clyrell RC649U



Polypropylene, Specialty Products

Product Description

Clyrell RC649U is a clarified development polypropylene resin with antistatic additivation used in injection molding.

It features an excellent combination of high stiffness and high transparency that enables customers to achieve excellent performances and aesthetic appearance which appeals to end users.

Regulatory Status

For regulatory compliance information, see *Clyrell* RC649U [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; High Stiffness; High Transparency

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	55	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1560	MPa	ISO 527-1, -2
Tensile Stress at Yield	34	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	1.2	kJ/m ²	ISO 179
Thermal			
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	18	%	ASTM D1003
Gloss, (60°)	120		ASTM D2457

Notes

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