

Clyrell RC449S

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Clyrell RC449S is a development polypropylene resin with nucleation and antistatic additivation designed for injection molding. It features an excellent combination of outstanding 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. The product contains the most advanced clarifier system that allows easy processing at significantly lower temperatures than similar resins, which customers report enables them to reduce cycle times to save energy and improve productivity. It is not intended for medical and pharmaceutical applications.

General Information			
Additive	Nucleating agent		
	Clarifier		
	Antistatic property		
Features	Excellent Organoleptic Properties		
	Nucleated		
	Rigid, good		
	Antistatic property		
	Impact resistance, good		
	Fast molding cycle		
	Definition, high		
	Good appearance		
Uses	Household goods		
	Container		
	Sporting goods		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	42	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1250	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	30.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	12	%	ISO 527-2/50
Fracture, 23°C	> 50	%	ISO 527-2/50
Flexural Modulus - Secant ¹ (23°C)	1220	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
0°C	1.5	kJ/m ²	ISO 179
23°C	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	137		ASTM D2457
Haze (1000 μm)	6.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 - 230	°C	
NOTE			
1.	2.0 mm/min		

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