Technical Data Sheet

Clyrell EC140R

Polypropylene, Specialty Products

Product Description

Clyrell EC140R is a clarified polyolefinic resin combining the typical advantages of polypropylene random and heterophasic copolymers and is used for injection moulding applications.
Clyrell EC140R features a good impact resistance at room and sub-zero temperatures, high gloss and good resistance to stress whitening.
Clyrell EC140R is typically used by customers in clear containers with high impact resistance for deep-freezer storage conditions.

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe
Application	Clear Containers; Housewares; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	High Gloss; Low Shrinkage; Medium Flow; Medium Impact Resistance; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	30	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	900	MPa	ISO 527-1, -2
Tensile Stress at Yield	20	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	18	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	6	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
Ductile/Brittle Transition Temperature	-50	°C	ISO 6603-2
Thermal			
Vicat Softening Temperature, (A50)	114	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	60	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	20	%	ASTM D1003