Technical Data Sheet

Clyrell EC340R

Polypropylene, Specialty Products

Product Description

Clyrell EC340R is a clarified polyolefinic resin used in injection moulding applications. *Clyrell* EC340R combines the aesthetic properties of a random with the impact-stiffness property of a heterophasic copolymer.
Clyrell EC340R features a good impact resistance at room and sub-zero temperature, high gloss and good resistance to stress whitening.
Clyrell EC340R is typically used by customers in clear impact container, toys, housewares.

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)	26	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1180	MPa	ISO 527-1, -2
Tensile Stress at Yield	23	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	12	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2	kJ/m²	ISO 179
Ductile/Brittle Transition Temperature	-48	°C	ISO 6603-2
Thermal			
Vicat Softening Temperature, (A50)	123	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm - injection molded disc)	32	%	ASTM D1003