

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.

Regulatory Status

For regulatory compliance information, see *Clyrell* EC340R [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

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/cm ³	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/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	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