

## 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.

<b>Application</b>	Clear Containers; Housewares; Sports, Leisure & Toys
<b>Market</b>	Consumer Products; Rigid Packaging
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Gloss; Low Shrinkage; Medium Flow; Medium Impact Resistance; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	26	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1100	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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m <sup>2</sup>	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m <sup>2</sup>	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2	kJ/m <sup>2</sup>	ISO 179
Ductile/Brittle Transition Temperature	-48	°C	ISO 6603-2
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	123	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2
<b>Optical</b>			
Haze, (1 mm - injection molded disc)	32	%	ASTM D1003