

Technical Data Sheet

**Clyrell EC340Q**



Polypropylene, Specialty Products

**Product Description**

Clyrell EC340Q is a specially designed nucleated polypropylene impact copolymer for injection moulding. Clyrell EC340Q offers an excellent impact strength/stiffness combination, easy processing, low stress whitening with very high gloss and low shrinkage for its use in toys, sport, leisure, food packaging, containers, housewares, consumer goods and similar applications.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Containers; Housewares; Luggage; Sports, Leisure & Toys
<b>Market</b>	Consumer Products; Rigid Packaging
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	High Gloss; Impact Copolymer; 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)	20	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1150	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	13	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	22	kJ/m <sup>2</sup>	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	5.5	kJ/m <sup>2</sup>	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	4	kJ/m <sup>2</sup>	ISO 179
Ductile/Brittle Transition Temperature	-46	°C	ISO 6603-2
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	127	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	88	°C	ISO 75B-1, -2
<b>Optical</b>			
Haze, (1 mm)	38	%	ASTM D1003