

# Clyrell EC340Q

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Clyrell EC340Q is a specially designed nucleated polypropylene copolymer for injection moulding. Clyrell EC340Q offers an excellent impact / stiffness balance, easy processing, low stress whitening with very high gloss and low shrinkage for use in toys, sport, leisure, food packaging, containers, housewares, consumer goods and similar applications. The unique low shrinkage of Clyrell EC340Q suggests its potential use also in applications which are typically dominated by styrenics. This grade is suitable for food contact.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Gloss		
	Low Shrinkage		
	Medium Flow		
	Nucleated		
Uses	Containers		
	Household Goods		
	Luggage		
	Packaging		
	Safety Equipment		
	Sporting Goods		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	13	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	4.0	kJ/m <sup>2</sup>	
23°C	22	kJ/m <sup>2</sup>	
Notched Izod Impact Strength			ISO 180/1A
-20°C	4.3	kJ/m <sup>2</sup>	
0°C	5.9	kJ/m <sup>2</sup>	
23°C	22	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-46.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	127	°C	ISO 306/A50
--	58.0	°C	ISO 306/B50
Optical	Nominal Value		Test Method
Gloss (60°)	100		ASTM D2457

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

