

# Clyrell EC140R

Polypropylene  
LyondellBasell Industries

Message:

Clyrell EC140R is a clarified polyolefinic resin combining the typical advantages of polypropylene random and heterophasic copolymers and is designed for injection moulding applications.

Clyrell EC140R features very high impact resistance at room and sub-zero temperatures, good transparency and good resistance to stress whitening. In addition it exhibits a high fluidity.

The main applications of Clyrell EC140R are the production of clear containers with very high impact resistance for deep-freezer storage conditions.

General Information			
Additive	Clarifier		
Features	High Clarity		
	High Flow		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Stress Whitening Resistant		
Uses	Containers		
	Household Goods		
	Sporting Goods		
	Toys		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238, ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	40.5	cm <sup>3</sup> /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	28.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	850	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	18	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m <sup>2</sup>	
0°C	6.0	kJ/m <sup>2</sup>	
23°C	20	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-50.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	114	°C	ISO 306/A50
--	52.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	20	%	ASTM D1003

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

