Clyrell EC2458

Polypropylene

LyondellBasell Industries

Message:

Clyrell EC2458 is a clarified polyolefinic resin combining the typical advantages of polypropylene random and heterophasic copolymers and is designed for injection moulding applications.
Clyrell EC2458 offers a good flowability with very high impact resistance at room and sub-zero temperatures, good transparency and good resistance to stress whitening.
Clyrell EC2458 can be processed at significantly lower temperatures which enable energy savings and improved productivity due to reduced cycle times.
Clyrell EC2458 is a developmental grade.
The main applications of Clyrell EC2458 are the production of clear containers with very high impact resistance for deep-freezer storage conditions.

General Information			
Additive	Clarifier		
Features	Fast Molding Cycle Good Flow High Impact Resistance Low Temperature Impact Resistance Medium Clarity Stress Whitening Resistant		
Uses	Containers Household Goods Sporting Goods Toys		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.900	g/cm³	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	cm³/10min	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/m²	
0°C	6.0	kJ/m²	
23°C	20	kJ/m²	
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

Recommended distributors for this material

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