

Moplen EP442M

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

LyondellBasell Australia's Polypropylene grade EP442M is a medium flow impact copolymer and is formulated with a nucleant additive package. EP442M is designed for injection moulding applications requiring good impact strength and enhanced rigidity.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Moldability		
	High Flow		
	High Impact Resistance		
	High Rigidity		
	High Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Nucleated		
Uses	Appliances		
	Caps		
	Closures		
	Crates		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	24.5	MPa	ISO 527-2
Flexural Modulus	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	4.5	kJ/m ²	
0°C	5.5	kJ/m ²	
23°C	10	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50

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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

