

Moplen EP500V

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP500V is an ultra high fluidity polypropylene copolymer used for injection moulding applications. The product combines high stiffness with good impact resistance, even at sub-zero temperatures. Moplen EP500V is extensively used for items with long flow paths. It is not intended for medical and pharmaceutical applications.

General Information			
Features	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Containers		
	Food Containers		
	Household Goods		
	Sporting Goods		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	100	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	135	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	81.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2
Tensile Stress (Yield)	26.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.3	kJ/m ²	
0°C	3.2	kJ/m ²	
23°C	5.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	93.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-43.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	149	°C	ISO 306/A50
--	74.0	°C	ISO 306/B50

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