

Moplen EP203N

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

LyondellBasell Australias polypropylene grade EP203N is a medium/high flow impact copolymer with a modified molecular weight distribution and is formulated with a general-purpose additive package. EP203N is designed for injection moulding applications requiring excellent mould filling properties, good stiffness, outstanding impact strength, and exceptional impact strength retention at low temperatures. End use products typically made from EP203N include crates, pails, pail lids, other industrial mouldings, domestic appliances and closures.

General Information			
Additive	Unspecified Additive		
Features	Food Contact Acceptable		
	Good Moldability		
	Good Stiffness		
	High Flow		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Appliances		
	Caps		
	Closures		
	Crates		
	Industrial Applications		
	Lids		
	Pails		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 176.170(c), Table 2		
	FDA 21 CFR 177.1520(a) 3 (i) 2		
	FDA 21 CFR 177.1520(c) 3.1a 2		
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)	11	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	ISO 527-2

Flexural Modulus	800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	4.0	kJ/m ²	
0°C	5.0	kJ/m ²	
23°C	10	kJ/m ²	
Falling Dart Impact (-55°C)	11.0	J	BS 2782 306B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	65.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/A

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