

Moplen EP243R

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

LyondellBasell Australias polypropylene grade EP243R is a high flow impact copolymer formulated with a general-purpose additive package. EP243R also contains nucleation additives. EP243R is designed for injection moulding applications requiring excellent mould filling properties, low warpage, and excellent low temperature impact strength at low part weight.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Low warpage		
	Impact copolymer		
	Good formability		
	High liquidity		
	Low temperature impact resistance		
	Compliance of Food Exposure		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 176.170(c), Table 2, Cond. C		
	FDA 21 CFR 176.170(c), Table 2, Cond. D		
	FDA 21 CFR 176.170(c), Table 2, Cond. E		
	FDA 21 CFR 176.170(c), Table 2, Cond. F		
	FDA 21 CFR 176.170(c), Table 2, Cond. G		
	FDA 21 CFR 176.170(c), Table 2, Cond. H		
	FDA 21 CFR 177.1520(a) 3 (i)		
Forms	Particle		
	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)	24	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Flexural Modulus	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A

-20°C	5.0	kJ/m ²	ISO 180/1A
0°C	6.0	kJ/m ²	ISO 180/1A
23°C	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	65.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Additional Information			

Falling Weight Impact Strength @ -50°C, BS2782-306b: 10 J

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