

Pro-fax SD242

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Pro-fax SD-242 nucleated impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers an excellent stiffness/impact balance.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax SD242

For regulatory compliance information see Pro-fax SD242 Product Stewardship Bulletin (PSB).

General Information			
UL YellowCard	E363154-101519036		
Additive	Nucleating Agent		
Features	Good Impact Resistance		
	Good Moldability		
	Good Stiffness		
	Impact Copolymer		
	Nucleated		
Uses	Automotive Interior Parts		
	Containers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.898	g/cm ³	ASTM D792B
23°C	0.900	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	28.0	MPa	ASTM D638
Yield, 23°C	27.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.0	%	ASTM D638
Yield, 23°C	5.0	%	ISO 527-2
Flexural Modulus			
1% Secant ²	1450	MPa	ASTM D790A
23°C	1470	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-40°C	1.7	kJ/m²	
23°C	4.8	kJ/m²	
Notched Izod Impact			
23°C	48	J/m	ASTM D256A
-40°C	3.0	kJ/m²	ISO 180
23°C	4.8	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	113	°C	ASTM D648
0.45 MPa, Unannealed	91.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	53.0	°C	ISO 75-2/A
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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