

Pro-fax SG702

Polypropylene Copolymer

LyondellBasell Industries

Message:

Pro-fax SG702 high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers very good cold temperature impact resistance.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax SG702.

For regulatory compliance information see Pro-fax SG702 Product Stewardship Bulletin (PSB).

General Information			
UL YellowCard	E363154-101519037		
Features	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Automotive Interior Parts		
	Sporting Goods		
	Toys		
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
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	20.0	MPa	ASTM D638
Yield, 23°C	19.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.0	%	ASTM D638
Yield, 23°C	6.0	%	ISO 527-2
Flexural Modulus			
1% Secant ²	1030	MPa	ASTM D790A
23°C	920	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	2.9	kJ/m ²	
23°C	16	kJ/m ²	
Notched Izod Impact			

23°C	No Break		ASTM D256A
-40°C	5.0	kJ/m ²	ISO 180
23°C	42	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	82.2	°C	ASTM D648
0.45 MPa, Unannealed	69.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/A
NOTE			
1.	51 mm/min		
2.	1.3 mm/min		

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