

LyondellBasell Pro-faxâ„¸ SG899 Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Description: Pro-faxâ„¸ SG899 high flow, high impact polypropylene copolymer resin is tailored for use in automotive interior head impact applications. This resin is designed to be run in conventional injection molding equipment using standard polypropylene processing conditions. It is available in pellet form. All ingredients in Pro-faxâ„¸ SG899 resin meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Uses: Automotive interior parts Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Pro-fax-SG899-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792 & ISO 1183
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 230 Â°C	35 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.4 MPa	3100 psi	ASTM D 638
	22.0 MPa	3190 psi	ISO 527-1, -2
Elongation at Break	50 %	50 %	ISO 527-1, -2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1, -2
	6.0 %	6.0 %	ASTM D 638
Flexural Modulus	1.03 GPa	150 ksi	1% Secant, 0.05 in/min; ASTM D790
	1.10 GPa	160 ksi	ISO 178
Izod Impact, Notched	2.99 J/cm	5.60 ft-lb/in	73Â°F; ASTM D256
Izod Impact, Notched (ISO)	5.50 kJ/m ² @Temperature -40.0 Â°C	2.62 ft-lb/in ² @Temperature -40.0 Â°F	ISO 180
	7.50 kJ/m ² @Temperature -18.0 Â°C	3.57 ft-lb/in ² @Temperature -0.400 Â°F	ISO 180
	14.0 kJ/m ² @Temperature 23.0 Â°C	6.66 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.8 Â°C	190 Â°F	Unannealed; ISO 75B-1, -2
	97.8 Â°C	208 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	52.2 Â°C	126 Â°F	Unannealed; ISO 75A-1, -2

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