

Pro-fax PD702

LyondellBasell Industries - Polypropylene Homopolymer

Thursday, December 21, 2023

General Information

Product Description

Pro-fax PD702 polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications.

For regulatory compliance information see Pro-fax PD702 Product Stewardship Bulletin (PSB).

General

Material Status	• Commercial: Active
Regional Availability	• North America
Features	• Good Dimensional Stability • Good Processability
Uses	• Caps • Closures • Containers
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.900	0.900	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	35 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Yield)	12 %	12 %	ASTM D638
Flexural Modulus - 1% Secant ³	170000 psi	1170 MPa	ASTM D790A
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.60 ft-lb/in	32 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	190 °F	88.0 °C	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min (50 mm/min)

³ 0.051 in/min (1.3 mm/min)