

LyondellBasell Industries - Polypropylene Homopolymer

Wednesday, December 8, 2021

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					ASTM D648			
66 psi (0.45 MPa), Unannealed	190	°F	88.0	°C				

Notes

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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)