Pinnacle PP 3208

Polypropylene Impact Copolymer

Pinnacle Polymers

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Technical Data

Product Description

8 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 3208 is made via UNIPOL™ PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physical properties and lot-to-lot consistency.

This product is intended for injection molding of automotive and consumer product applications. Also contains a long-term heat aging additive system.

The 3208 product provides:

- Wet/Dry environment resistance
- Superior balance of stiffness and impact strength
- Excellent long term heat aging properties
- Excellent color and processing stability
- Enhanced weld-line strength
- UL Listed

Pinnacle's 3208 polypropylene is covered under US FDA Food Contact Notification 864. As such, this polymer can be used in contact with all food types under Conditions of Use A-H, as described in 21 CFR 176.170, Tables 1 and 2. This polymer also complies with 21 CFR 177.1520(c), items 3.1(a) and 3.2(a).

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet - Europe version (English) • Technical Information - FDA (English)		
UL Yellow Card [2]	• E130336-221941 • E130336-221942		
Search for UL Yellow Card	• Pinnacle Polymers • Pinnacle PP		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer		
Features	• Food Contact Acceptable • Good Color Stability • Good Processing Stability	• Heat Aging Resistant • Heat Stabilized • High Impact Resistance	• Impact Copolymer • Weldable
Uses	• Automotive Applications	• Consumer Applications	
Agency Ratings	• FDA FCN 864	• FDA Food Contact A-H [3]	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm³	0.900 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.013 in/in	1.3 %	ASTM D955
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [5]			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	3410 psi	23.5 MPa	
Tensile Elongation [5]			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	7.0 %	7.0 %	
Flexural Modulus - 1% Secant [6]			ASTM D790A
0.126 in (3.20 mm), Injection Molded	155000 psi	1070 MPa	

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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact [7]			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	> 6.0 ft·lb/in	> 320 J/m	
Notched Izod Impact (Area) [7]			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	> 14.8 ft·lb/in²	> 31.0 kJ/m²	
Gardner Impact [8] (-22°F (-30°C))	292 in·lb	33.0 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	178 °F	81.0 °C	

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

[3] CFR Title 21

[4] Typical properties: these are not to be construed as specifications.

[5] Type I, 2.0 in/min (51 mm/min)

[6] Type I, 0.050 in/min (1.3 mm/min)

[7] Type I

[8] Method G, Geometry GC

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