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4208

8 MELT FLOW ULTRA HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 4208 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 general extrusion or injection molding applications. Also contains a long term heat aging additive system. Has superior high and low temperature impact.

Features:

The 4208 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

Pinnacle's 4208 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).

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	8 g/10 min.	8 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Tensile yield strength, at 51 mm/min	3400 psi	23.5 MPa	D638 ²
Yield elongation, at 51 mm/min	10%	10%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	150,000 psi	1035 MPa	D790A ²
Notched Izod breaks, at 73°F/23°C	100% No-breaks	100% No-breaks	D256 ²
Notched Izod impact strength, at 73°F/23°C	≥10 ft-lb/in	≥534 J/m	
Gardner Impact strength at -22°F/-30°C	320 in-lb	35.2 J	D5420 ³

¹Condition L 230/2.16

²ASTM Type I specimen, 3.2 mm thick (injection molded per ASTM D4101-92a)

³Method G, Geometry GC

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