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2108

8 MELT FLOW IMPACT COPOLYMER

Product Description and Applications:

Pinnacle Polymers Polypropylene 2108 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 sheet extrusion, thermoformed containers, and injection molding applications where toughness and cold temperature impact strength are required.

Features:

The 2108 product provides:

- Excellent cleanliness
- Superior toughness
- Excellent color and process stability
- Good melt strength
- UL Listed

Pinnacle's 2108 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	3500 psi	24.2 MPa	D638 ²
Yield elongation, at 51 mm/min	11%	11%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	185,000 psi	1277 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	≥6 ft-lb/in	≥320 J/m ≥31.4 kJ/m ²	D256 ²
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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