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3220

20 MELT FLOW HIGH IMPACT COPOLYMER FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 3220 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.

Features:

The 3220 product provides:

- Excellent balance of stiffness and high impact strength
- Excellent long term heat aging properties
- Excellent color and processing stability
- Superior weld-line strength
- UL Listed

Pinnacle's 3220 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	20 g/10 min.	20 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	7%	7%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	165,000 psi	1139 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	≥3 ft-lb/in	≥160 J/m	D256 ²
Gardner Impact strength at -22°F/-30°C	200 in-lb	22 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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