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2180HX4

80 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 2180HX4 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 impact copolymer is intended for use in thin wall injection molded packaging, housewares and consumer products applications. High Melt Flow dramatically improves cycle-times without forfeiting impact. Contains nucleator and antistat.

Features:

The 2180HX4 product provides:

- High stiffness
- Excellent impact at 23°C and -30°C
- Very high melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency

Pinnacle's 2180HX4 polypropylene as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form is covered under US FDA Food Contact Notification 864. As such, this polymer complies with the requirements of CFR Title 21 and can be used in contact with all food types under Conditions of Use A-H.

Typical Properties

Property	Traditional Units	SI Units	ASTM Test
Melt Flow Rate	80 g/10 min.	80 g/10 min.	D1238 ¹
Density at 23°C	0.9 g/cm ³	900 kg/m ³	D1505
Shrinkage	0.014 in/in	0.014 mm/mm	D955
Heat Deflection Temperature at 0.455 MPa (66psi)	222°F	106°C	D648
Tensile yield strength, at 51 mm/min	≥3000 psi	≥20 MPa	D638 ²
Yield elongation, at 51 mm/min	5%	5%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	≥155,000 psi	≥1068 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	≥1.8 ft-lb/in	≥96 J/m ≥9.4 kJ/m ²	D256 ²
Gardner Impact at -22°F/-30°C	≥135 in-lb	14 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

UNIPOL is a trademark of W. R. Grace and Co.

FDA and SDS documents are available on our website at: <http://www.pinnaclepolymers.com/datasds.php>