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2180H

80 MELT FLOW MEDIUM IMPACT COPOLYMER POLYPROPYLENE FOR INJECTION MOLDING

Product Description and Applications:

Pinnacle Polymers Polypropylene 2180H 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 controlled rheology 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 2180H product provides:

- High stiffness and good impact strength
- Very high melt flow
- Excellent mold release
- Superior processability
- Excellent lot-to-lot consistency

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
Tensile yield strength, at 51 mm/min	3400 psi	23.5 MPa	D638 ²
Yield elongation, at 51 mm/min	5%	5%	D638 ²
Flexural modulus (1% secant) at 1.27 mm/min	180,000 psi	1242 MPa	D790A ²
Notched Izod impact strength, at 73°F/23°C	1.9 ft-lb/in	101 J/m	D256 ²
Gardner Impact at -22°F/-30°C	125 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

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