

## Ineos J50-1000-187 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

**Material Notes:**

A high density polyethylene copolymer. It has a narrow molecular weight distribution and is intended for the injection molding of screw caps dedicated to the packaging of still water. This resin contains a lubrication package for improved release from the mold and lower application torques on the bottles. This material meets the Food and Drug Administration requirements of 21CFR 177.1520 and also passes the organoleptic test.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-J50-1000-187-HDPE.php](http://www.lookpolymers.com/polymer_ineos-J50-1000-187-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D4883
Environmental Stress Crack Resistance	4.0 hour	4.0 hour	ASTM D1693-A
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 190 °C	10 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	25.5 MPa	3700 psi	2 in/min.; ASTM D638
Elongation at Break	>= 500 %	>= 500 %	2 in/min.; ASTM D638
Flexural Modulus	1.207 GPa	175.1 ksi	Tangent-Method 1; ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM D648
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D 746

Descriptive Properties	Value	Comments
Process	Injection	

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