

## Ineos G50-100 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

Ineos G50-100 is a high molecular weight, high density polyethylene copolymer developed for sheet extrusion, thermoforming and large part blowmolding where the finished product demands outstanding physical performance. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-G50-100-HDPE.php](http://www.lookpolymers.com/polymer_ineos-G50-100-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D4883
High Load Melt Index	10 g/10 min	10 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	30.3 MPa	4400 psi	2 in/min.; ASTM D638
Tensile Strength, Yield	26.2 MPa	3800 psi	2 in/min (50 mm/min); ASTM D-638
Elongation at Break	>= 800 %	>= 800 %	2 in/min (50 mm/min); ASTM D-638
Modulus of Elasticity	0.931 GPa	135 ksi	ASTM D638
Flexural Modulus	1.205 GPa	174.8 ksi	Tangent-Method 1; ASTM D790
Tensile Impact Strength	525 kJ/m <sup>2</sup>	250 ft-lb/in <sup>2</sup>	Type L, ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear	120 $\mu\text{m/m-}^\circ\text{C}$	66.7 $\mu\text{in/in-}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 $^\circ\text{C}$	158 $^\circ\text{F}$	ASTM D648
Vicat Softening Point	130 $^\circ\text{C}$	266 $^\circ\text{F}$	ASTM D1525
Brittleness Temperature	<= -75.0 $^\circ\text{C}$	<= -103 $^\circ\text{F}$	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	
	Sheet Extrusion	

Descriptive Properties	Value	Comments
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Region

US & Canada

Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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