

## Ineos HP53-25-155 HDPE

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

### Material Notes:

HP53-25-155 is a high performance, high density polyethylene copolymer developed for blow molding. It is recommended for use in continuous extrusion blow molding equipment, specifically where applications which require excellent environmental stress crack resistance (ESCR). 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-HP53-25-155-HDPE.php](http://www.lookpolymers.com/polymer_ineos-HP53-25-155-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D4883
Melt Flow	0.22 g/10 min @Load 2.16 kg, Temperature 190 °C	0.22 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Yield	25.5 MPa	3700 psi	2 in/min (50 mm/min); ASTM D-638
Elongation at Break	>= 700 %	>= 700 %	2 in/min (50 mm/min); ASTM D-638
Flexural Modulus	0.931 GPa	135 ksi	2% Secant-Method 1; ASTM D790
	1.138 GPa	165.1 ksi	Tangent-Method 1; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Tensile Impact Strength	313 kJ/m <sup>2</sup>	149 ft-lb/in <sup>2</sup>	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM D648
Vicat Softening Point	129 °C	264 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	
Region	US & Canada	Bamberger Polymers Distribution

## **Contact Songhan Plastic Technology Co.,Ltd.**

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