

INEOS HDPE T50-1000-187

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

T50-1000-187 is a narrow molecular weight distribution high density polyethylene copolymer intended for general purpose injection molding and extrusion applications. This HDPE resin contains a lubrication package. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information			
Additive	Lubricant		
Features	Copolymer		
	Food Contact Acceptable		
	General Purpose		
	High Density		
	Lubricated		
	Narrow Molecular Weight Distribution		
Uses	General Purpose		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	4.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	27.6	MPa	
Break	11.4	MPa	
Tensile Elongation ²			ASTM D638
Yield	9.5	%	
Break	> 800	%	
Flexural Modulus - Tangent	1190	MPa	ASTM D790A

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Notched Izod Impact (Area)	3.70	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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Recommended distributors for this material

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