Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

T50-1000-187 Polyethylene Copolymer

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

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	—	0.951 g/cc	**D4883**
Melt Index 190 C/ 2.16 kg	—	11 g/10 min	**D1238**
Compression Molded Samples			
Tensile Strength (2 in/min)			**D638**
@ Yield	4,000 psi	28.0 MPa	
@ Break	1,650 psi	11.0 MPa	
Elongation (2 in/min)			**D638**
@ Yield	9.5 %	9.5 %	
@ Break	> 800 %	> 800 %	
Flexural Modulus			**D790A**
Tangent Method	173,000 psi	1,193 MPa	
Notched Izod Impact Strength	0.7 ft-lbf/in	3.7 kJ/m^2	**D256**
Hardness			**D2240**
Shore D	66	66	
Vicat Softening Point	253 F	123 C	**D1525**
Brittleness Temperature	<-94 F	<-70 C	**D746**
Deflection Temperature			**D648**
@ 66 psi (455kPa)	163 F	73 C	
Environmental Stress Crack Resistance			**D1693**
Condition B; 100% Igepal F50 (hrs.)	4	4	

[1] Typical properties will vary and are not to be used for specification purposes.

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at **www.ineos-op.com**. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

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