T50-800-01 Polyethylene Copolymer

T50-800-01 is a high density polyethylene copolymer having a narrow molecular weight distribution intended for general purpose injection molding applications where a good balance of processability and end-use properties are required. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties[1]

	Values		ASTM
	English Units	SI Units	Method
Resin			
Density	–	0.953 g/cc	**D4883**
Melt Index [2]	–	8 g/10 min	**D1238**
Compression Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	4,000 psi	28 MPa	
@ Break	2,600 psi	17.9 MPa	
Elongation (2 in/min)			**D638**
@ Yield	10 %	10 %	
@ Break	> 900 %	> 900 %	
Flexural Modulus			**D790A**
Tangent Method	172,000 psi	1,186 MPa	
Notched Izod Impact Strength			**D256**
@ 23 C	0.7 ft-lbf/in	3.7 kJ/m2	
Hardness			**D2240**
Shore D	62	62	
Vicat Softening Point	257 F	125 C	**D1525**
Brittleness Temperature	<-94 F	<-70 C	**D746**
Deflection Temperature			**D648**
@ 66 psi	169 F	76 C	
Environmental Stress Crack Resistance			**D1693**
Condition B, 100% Igepal, F50 (hrs.)	3	3	

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

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

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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.

For additional information, samples, pricing and availability, please contact:

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