J50-2000-119 Polyethylene Copolymer

J50-2000-119 is a narrow molecular weight high density polyethylene copolymer intended for applications requiring a glossy finish and reasonably good impact strength and rigidity. It is characterized by a high melt index which allows easy processing of medium to thin walled articles. 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	—	0.9530 g/cc	**D4883**
Melt Index 190 C/2.16 kg	—	20.0 g/10 min	**D1238**
Compression Molded Sample			
Tensile Strength (2 in/min)			**D638**
@ Yield	4,000 psi	27.6 MPa	
@ Break	2,140 psi	14.8 MPa	
Elongation (2 in/min)			**D638**
@ Yield	9.1%	9.1%	
@ Break	> 200%	> 200 %	
Flexural Modulus			**D790A**
Tangent Method	178,900 psi	1,227 MPa	
Notched Izod Impact Strength	0.53 ft-lbf/in	2.77 kJ/m²	**D256**
Hardness			**D2240**
Shore D	66	66	
Vicat Softening Point	257 F	125 C	**D1525**
Brittleness Temperature	<-94 F	<-70 C	**D746**
Heat Deflection Temperature			**D648**
@ 66 psi (455 kPa)	162 F	72 C	
Environmental Stress Crack Resistance			**D1693**
Condition B, 100% Igepal, F50 (hrs.)	1.8	1.8	

[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.

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