

T50-4400-119 Polyethylene Copolymer

T50-4400-119 is a high-flow, high density polyethylene copolymer intended for high speed injection molding of thin wall containers. This material will allow for cycle time reduction while still imparting reasonable impact strength. This resin meets the Food and Drug Administration requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.951 g/cc	D4883
Melt Index 190 C/2.16 kg	—	44 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	3,600 psi	26 MPa	
@ Break	2,900 psi	21 MPa	
Elongation (2 in/min)			D638
@ Yield	7.8 %	7.8 %	
@ Break	40 %	40 %	
Flexural Modulus			D790A
Tangent Method	163,000 psi	1,200 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.5 ft-lbf/in	3.0 kJ/m ²	
Hardness			D2240
Shore D	62	62	
Vicat Softening Point	244 F	118 C	D1525
Brittleness Temperature	<-94 °F	<-70 °C	D746
Deflection Temperature			D648
@ 66 psi	151 F	66 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100 % Igepal, F50 (hrs.)	1	1	

¹Typical 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.

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

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