## **INEOS HDPE J50-2000-119**

High Density Polyethylene Copolymer **INEOS Olefins & Polymers USA** 

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## **Technical Data**

## Product Description

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.

Material Status	Commercial: Active		
Literature <sup>1</sup>	<ul> <li>Processing - Injection Molding (English)</li> <li>Technical Datasheet (English)</li> </ul>		
Search for UL Yellow Card	INEOS Olefins & Polymers USA		
Availability	<ul> <li>North America</li> </ul>		
Features	<ul><li>Copolymer</li><li>Food Contact Acceptable</li><li>Good Impact Resistance</li></ul>	<ul><li>Good Processability</li><li>High Density</li><li>High Gloss</li></ul>	<ul> <li>Medium Rigidity</li> <li>Narrow Molecular Weight Distribution</li> </ul>
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	<ul> <li>Contact Manufacturer</li> </ul>		
Forms	Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.953 g/cm <sup>3</sup>	0.953 g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B
100% Igepal, F50	1.80 hr	1.80 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>3</sup>			ASTM D638
Yield, Compression Molded	4000 psi	27.6 MPa	
Break, Compression Molded	2140 psi	14.8 MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Yield, Compression Molded	9.1 %	9.1 %	
Break, Compression Molded	> 200 %	> 200 %	
Flexural Modulus - Tangent (Compression Molded)	179000 psi	1230 MPa	ASTM D790A
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	0.53 ft·lb/in	28 J/m	ASTM D256
Notched Izod Impact (Area)			ASTM D256
Compression Molded	1.32 ft·lb/in <sup>2</sup>	2.77 kJ/m <sup>2</sup>	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D, Compression Molded	66	66	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Compression Molded	162 °F	72.2 °C	
Brittleness Temperature	< -94.0 °F	< -70.0 °C	ASTM D746
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 2.0 in/min (51 mm/min)



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