

# INEOS HDPE J50-2000-119

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

## Message:

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.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	High Density		
	High Gloss		
	Medium Rigidity		
	Narrow Molecular Weight Distribution		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	1.80	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	27.6	MPa	
Break	26.8	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	9.1	%	
Break	230	%	
Flexural Modulus - Tangent	1230	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	28	J/m	ASTM D256

Notched Izod Impact (Area)	2.77	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.2	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

