

# INEOS HDPE T60-500-119

High Density Polyethylene  
INEOS Olefins & Polymers USA

Message:

T60-500-119 is a high density polyethylene homopolymer designed specifically for injection molding. This narrow molecular weight distribution resin is a product of Ineos USA, LLC's innovative technology. Parts fabricated from this material exhibit a glossy surface finish and good impact strength and rigidity. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520(c) 3.2a.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Gloss		
	Homopolymer		
	Medium Rigidity		
	Narrow Molecular Weight Distribution		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.4	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	4.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	32.1	MPa	
Break	21.8	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	8.0	%	
Break	1300	%	
Flexural Modulus - Tangent	1700	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Notched Izod Impact (Area)	4.21	kJ/m <sup>2</sup>	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.8	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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#### Recommended distributors for this material

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