

INEOS HDPE T60-1200-119

High Density Polyethylene

INEOS Olefins & Polymers USA

Message:

T60-1200-119 is a narrow molecular weight distribution high density polyethylene copolymer intended for general purpose injection molding applications requiring good rigidity and a glossy surface finish. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information			
Features	Highlight		
	High density		
	Homopolymer		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
	Medium hardness		
Uses	General		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	3.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	29.0	MPa	ASTM D638
Fracture	11.7	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	> 300	%	ASTM D638
Flexural Modulus - Tangent	1650	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Notched Izod Impact	3.50	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	26.7	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	123	°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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