

INEOS HDPE T50-800-01

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

T50-800-01 is a high density polyethylene copolymer having a narrow molecular weight distribution intended for general purpose injection molding applications where a good balance of processability and end-use properties are required. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	General Purpose		
	High Density		
	Narrow Molecular Weight Distribution		
Uses	General Purpose		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	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)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	27.6	MPa	
Break	22.4	MPa	
Tensile Elongation ²			ASTM D638
Yield	10	%	
Break	> 1200	%	
Flexural Modulus - Tangent	1190	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Notched Izod Impact (Area) (23°C)	3.70	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.1	°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

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