

INEOS HDPE T50-200-178

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

T50-200-178 is a high density polyethylene copolymer with narrow molecular weight distribution. It is intended for injection molding applications which require high impact resistance and good environmental stress crack resistance. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Narrow Molecular Weight Distribution		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	16.5	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	27.6	MPa	
Break	35.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	9.1	%	
Break	1400	%	
Flexural Modulus - Tangent	1230	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Notched Izod Impact (Area)	11.3	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.1	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	128	°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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