INEOS HDPE T50-1000-178

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

T50-1000-178 is a narrow molecular weight distribution high density polyethylene copolymer intended for general purpose injection molding and extrusion applications. This material meets the Food and Drug Administration requirements of 21 CFR 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	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	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)	66		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	27.6	MPa	
Break	11.4	MPa	
Tensile Elongation [2]			ASTM D638
Yield	9.5	%	
Break	> 800	%	
Flexural Modulus - Tangent	1190	MPa	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	37	J/m	ASTM D256
Notched Izod Impact (Area)	3.70	kJ/m²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°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		

Recommended distributors for this material

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