

INEOS HDPE T50-1000

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

T50-1000 is a high density polyethylene copolymer. It has a narrow molecular weight distribution and is intended for general purpose molding and extrusion applications. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Injection Molding (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• INEOS Olefins & Polymers USA	
Availability	• North America	
Features	• Copolymer • Food Contact Acceptable	• General Purpose • Narrow Molecular Weight Distribution
Uses	• General Purpose	
Agency Ratings	• FDA 21 CFR 177.1520	
RoHS Compliance	• Contact Manufacturer	
Forms	• Pellets	
Processing Method	• Extrusion	• Injection Molding

	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

	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	27.6 MPa	ASTM D638
Tensile Elongation ³ (Break)	> 600 %	ASTM D638
Flexural Modulus - Tangent	1210 MPa	ASTM D790

	Nominal Value Unit	Test Method
Notched Izod Impact	50 J/m	ASTM D256

	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240

	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	77.0 °C	ASTM D648
Brittleness Temperature	< -75.0 °C	ASTM D746
Vicat Softening Temperature	128 °C	ASTM D1525

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 51 mm/min