

INEOS HDPE T50-2000

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

T50-2000 is a high density, narrow molecular weight polyethylene copolymer intended for applications requiring a glossy surface finish and reasonably good impact strength and rigidity. It is characterized by a high melt index which allows easy processing of medium to thin-walled articles. 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 • Good Impact Resistance	• Good Strength • High Density • High Gloss	• Narrow Molecular Weight Distribution
Uses	• Thin-walled Parts		
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.953 g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	26.9 MPa	ASTM D638
Flexural Modulus - Tangent	1280 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact	32 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	76.0 °C	ASTM D648
Brittleness Temperature	< -75.0 °C	ASTM D746
Vicat Softening Temperature	123 °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