

INEOS HDPE T50-200

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

T50-200 is a high density polyethylene copolymer of 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 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	• High ESCR (Stress Crack Resist.) • High Impact Resistance	• Narrow Molecular Weight Distribution
Agency Ratings	• FDA 21 CFR 177.1520		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.952 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	14.0 hr	ASTM D1693B
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	27.6 MPa	ASTM D638
Tensile Elongation ³ (Break)	> 1000 %	ASTM D638
Flexural Modulus - Tangent	1280 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact	120 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	77.0 °C	ASTM D648
Brittleness Temperature	< -75.0 °C	ASTM D746
Vicat Softening Temperature	131 °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