



TechResin® 2192

Linear Low Density Polyethylene

Product Description

- TechResin® 2192 exhibits good stiffness and low temperature toughness.
- Typical applications for TechResin® 2192 include industrial containers, trash cans, toys and housewares.
- TechResin® 2192 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply.

General

Material Status	 Commercial: Active 		
Availability	 North America 		
Features	Food Contact Acceptable	Good Stiffness	 Low Temperature Toughness
Uses	ContainersHousehold Goods	Industrial ApplicationsToys	
Agency Ratings	• FDA 21 CFR 177.1520		

ASTM & ISO Properties 1

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	21	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	2030	psi	ASTM D638
Tensile Strength (Break)	1160	psi	ASTM D638
Tensile Elongation ² (Yield)	12	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	55100	psi	
2% Secant	46400	psi	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (66 psi, Unannealed)	117	°F	ASTM D648
Brittleness Temperature ⁵	< -105	°F	ASTM D746
Vicat Softening Temperature	205	°F	ASTM D1525

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 20 in/min
- ³ 0.50 in/min
- ⁴ Data is for control and development work and not intended for use in design or predicting endurance at elevated temperatures

5 F50

MDT does not guarantee reproduction of these results. This is not a Certificate of Analysis and the customer is responsible for testing and confirming the Material Properties before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other's circumstances. Determination of the suitability and fitness of the product for any particular application is the sole responsibility of the purchaser of the product. This information is solely intended for informational purposes. This material confirmation relates solely to the product listed above and not as incorporated in any product or used in any process. Material Difference Technology makes no warranty or representation of any kind, regarding the information given or the products described, and expressly disclaims all implied warrantie s and conditions of quality, merchanitbility and suitability or fitness for a particular purpose. the customer or other user of the product assumes all risk and liability arising out of the use of the product, whether used alone or in combination with other materials The presence absence or lack of information herein with respect to any particular international, national, federal, state or local law, statute, regulation, order or rule should not be construed to mean that product is regulated under, complies with or is exempt from such international, national, federal state or local law, statute, regulation, order or rule