



Network Polymers Hdpe 50 0753

High Density Polyethylene
LyondellBasell Industries
Engineering Plastics

General	
Features	• Food Contact Acceptable
Agency Ratings	• FDA 21 CFR 177.1520
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.953 g/cm³	0.953 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°c/2.16 Kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Break)	4350 psi	30.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	950 %	950 %	ASTM D638
Flexural Modulus ²	180000 psi	1240 MPa	ASTM D790

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-105 °F	-76.1 °C	ASTM D746

Notes

¹ 2.0 in/min (51 mm/min)

² 0.050 in/min (1.3 mm/min)

Notes

These are typical property values not to be construed as specification limits.