

Technical Data Sheet  
**Network Polymers**  
**HDPE 50 0753**  
 High Density Polyethylene  
 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/cm <sup>3</sup>	0.953 g/cm <sup>3</sup>	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 <sup>1</sup> (Break)	4350 psi	30.0 MPa	ASTM D638
Tensile Elongation <sup>1</sup> (Break)	950 %	950 %	ASTM D638
Flexural Modulus <sup>2</sup>	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**  
<sup>1</sup> 2.0 in/min (51 mm/min)  
<sup>2</sup> 0.050 in/min (1.3 mm/min)

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