

Technical Data Sheet  
**Network Polymers**  
**HDPE 50 2053**  
 High Density Polyethylene  
 Engineering Plastics



Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm <sup>3</sup>	0.952 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) <sup>1</sup> (190°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	300 %	300 %	ASTM D638
Flexural Modulus <sup>4</sup>	140000 to 180000 psi	965 to 1240 MPa	ASTM D790B
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -95.0 °F	< -70.6 °C	ASTM D746
Vicat Softening Temperature	252 °F	122 °C	ASTM D1525

**Notes**

<sup>1</sup> Procedure A

<sup>2</sup> Type IV, 2.0 in/min (51 mm/min)

<sup>3</sup> 2.0 in/min (51 mm/min)

<sup>4</sup> Method I (3 point load), 0.050 in/min (1.3 mm/min)

**Notes**

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