

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 ³	0.952 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (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 ² (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation ³ (Break)	300 %	300 %	ASTM D638
Flexural Modulus ⁴	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

¹ Procedure A

² Type IV, 2.0 in/min (51 mm/min)

³ 2.0 in/min (51 mm/min)

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

