

Technical Data Sheet
Network Polymers
HDPE 50 0355
High Density Polyethylene
Engineering Plastics



General

Processing Method • Blow Molding • Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.955 g/cm ³	0.955 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	0.35 g/10 min	0.35 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
F50	45.0 hr	45.0 hr	ASTM D1693A
F50	35.0 hr	35.0 hr	ASTM D1693B
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	4000 psi	27.6 MPa	ASTM D638
Tensile Elongation ² (Break)	> 600 %	> 600 %	ASTM D638
Flexural Modulus ³	200000 psi	1380 MPa	ASTM D790B
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -180 °F	< -118 °C	ASTM D746

Notes

¹ Procedure A

² 2.0 in/min (51 mm/min)

³ 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.