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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/cm³	0.955 g/cm³	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.