

Technical Data Sheet

# Network Polymers Hdpe 50 0355

High Density Polyethylene  
 LyondellBasell Industries  
 Engineering Plastics

**General**

Processing Method • Blow Molding • Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.955 g/cm <sup>3</sup>	0.955 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) <sup>1</sup> (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 <sup>2</sup> (Yield)	4000 psi	27.6 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 600 %	> 600 %	ASTM D638
Flexural Modulus <sup>3</sup>	200000 psi	1380 MPa	ASTM D790B
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -180 °F	< -118 °C	ASTM D746

**Notes**

<sup>1</sup> Procedure A

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

<sup>3</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.