

Network Polymers Ldpe 10 0218

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Engineering Plastics

General

Agency Ratings

- FDA 21 CFR 177.1350

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.941 g/cm ³	0.941 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 Kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Vinyl Acetate Content	18.0 wt%	18.0 wt%	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2600 psi	17.9 MPa	ASTM D638
Tensile Elongation (Break)	750 %	750 %	ASTM D638
Flexural Modulus ² (Injection Molded)	6400 psi	44.1 MPa	ASTM D790A
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Impact Strength			ASTM D1822
-4°F (-20°C)	230 ft·lb/in ²	483 kJ/m ²	
73°F (23°C)	265 ft·lb/in ²	557 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	90	90	
Shore D	40	40	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -145 °F	< -98.3 °C	ASTM D746
Vicat Softening Temperature	147 °F	63.9 °C	ASTM D1525 ³

Notes

¹ Procedure A

² Method I (3 point load)

³ Rate A (50°C/h)

Notes

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