

Technical Data Sheet

**Formion FI 200HFU**

Ionomer
LyondellBasell Industries
Engineering Plastics

Product Description

Ionomer Nylon Alloy

General

Material Status	• Commercial: Active
Availability	• North America
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	16 g/10 min	16 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹			ASTM D638
Yield, 72°F (22°C), 0.126 in (3.20 mm), Injection Molded	6530 psi	45.0 MPa	
Tensile Elongation ¹			ASTM D638
Break, 70°F (21°C), 0.157 in (4.00 mm), Injection Molded	250 %	250 %	
Flexural Modulus - Tangent ²			ASTM D790A
72°F (22°C), 0.126 in (3.20 mm), Injection Molded, 1.97 in (50.0 mm) Span	145000 psi	1000 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
72°F (22°C), 0.126 in (3.20 mm)	No Break	No Break	
Multi-Axial Instrumented Impact Energy ³			ISO 6603-2
0.126 in (3.20 mm), Injection Molded, Ductile Failure	33.2 ft·lb	45.0 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ASTM D785
R-Scale, 72°F (22°C), 0.126 in (3.20 mm)	95	95	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648A
66 psi (0.45 MPa), Unannealed, 0.126 in (3.20 mm), Injection Molded	149 °F	65.0 °C	

Notes

¹ Type I, 2.0 in/min (50 mm/min)

² Method I (3 point load), Type I, 2.0 in/min (50 mm/min)

³ 7.2 ft/sec (2.2 m/sec)

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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