

Technical Data Sheet

**Icorene 3950S**

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

General purpose linear low density polyethylene compound with part to part consistency.
Available as pellet or powder.

General

Material Status	• Commercial: Active	
Availability	• North America	
Additive	• UV Stabilizer	
Features	• Good Moldability	
Uses	• General Purpose	
Appearance	• Black	• Colors Available
Forms	• Pellets	• Powder
Processing Method	• Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity ¹	0.939	0.937 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, Compression Molded, F50	> 1000 hr	> 1000 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield, Compression Molded)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation ² Yield, Compression Molded	13 %	13 %	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	113000 psi	779 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength -40°F (-40°C), 0.125 in (3.18 mm), Rotational Molded	54 ft·lb	73 J	ARM
-40°F (-40°C), 0.250 in (6.35 mm), Rotational Molded	195 ft·lb	264 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, Rotational Molded	140 °F	60.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Rotational Molded	102 °F	39.0 °C	

Additional Information

Test data for natural, unpigmented resin.

Notes

¹ compression molded

² Type IV, 2.0 in/min (51 mm/min)

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

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- 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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