

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

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			ARM
-40°F (-40°C), 0.125 In (3.18 Mm), Rotational Molded	54 ft·lb	73 J	
-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			ASTM D648
66 Psi (0.45 Mpa), Unannealed, Rotational Molded	140 °F	60.0 °C	
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.