

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.

