

Technical Data Sheet

Icorene 3560

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 3560 is a polyethylene developed for rotational molding applications. Intended applications are primarily large hollow objects, including toys, playground equipment, and a variety of other products.

General

Additive	• UV Stabilizer	
Features	• Low Temperature Impact Resistance	• UV Resistant
Uses	• General Purpose	• Toys
Appearance	• Black	• Colors Available
Forms	• Pellets	• Powder
Processing Method	• Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm ³	0.935 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	6.7 g/10 min	6.7 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, F50	50.0 hr	50.0 hr	
100% Igepal, F50	> 1000 hr	> 1000 hr	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2650 psi	18.3 MPa	ASTM D638
Flexural Modulus	101000 psi	696 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	52 ft·lb	71 J	
-40°F (-40°C), 0.250 In (6.35 Mm), Rotational Molded	160 ft·lb	217 J	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	130 °F	54.4 °C	
264 Psi (1.8 Mpa), Unannealed	101 °F	38.3 °C	

Additional Information

Test data is for natural, unpigmented resin.

Notes

¹ Type IV, 2.0 in/min (51 mm/min)

Notes

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