(+) 188 1699 6168 hongrunplastics.com

Technical Data Sheet

lyondellbasell

Icorene 3940

Linear Medium Density Polyethylene LyondellBasell Industries Rotomolding

Product Description

ICORENE® 3940 is a linear medium density polyethylene developed for rotational molding applications.

The resin is fully UV stabilized and suitable for general purpose applications. It has a good balance of properties such as toughness and stiffness. **General**

Additive	 UV Stabilizer 		
Features	 Ablation Resistant General Purpose	 Good Processability Good Stiffness	 Good Toughness UV Resistant
Uses	ContainersGeneral Purpose	Outdoor ApplicationsPallets	Tanks
Appearance	Black	Colors Available	Natural Color
Forms	Pellets	Powder	
Processing Method	 Rotational Molding 		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.939 to 0.941 g/cm ³	0.939 to 0.941 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°c/2.16 Kg)	3.4 to 4.0 g/10 min	3.4 to 4.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal	50.0 hr	50.0 hr	
100% Igepal	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2900 psi	20.0 MPa	ASTM D638
Flexural Modulus ²	121000 psi	834 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	57 ft·lb	77 J	
-40°f (-40°c), 0.250 In (6.35 Mm), Rotational Molded	> 190 ft·lb	> 258 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	144 °F	62.0 °C	
264 Psi (1.8 Mpa), Unannealed	105 °F	40.6 °C	

Additional Information

Test data for natural, unpigmented resin.

Notes

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

Notes

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