Icorene 3940 719 SAHARA TANBWN

LyondellBasell Industries - Linear Medium Density Polyethylene

General Information

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 • Good Processability	• Good Stiffness • Good Toughness	• UV Resistant • UV Stabilized
Uses	• Containers • General Purpose	• Outdoor Applications • Pallets	• Tanks
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets	• Powder	
Processing Method	• Rotational Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.939 to 0.941	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.4 to 4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal	50.0	hr	
100% Igepal	> 1000	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	2900	psi	ASTM D638
Flexural Modulus [3]	121000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	57	ft·lb	
-40°F, 0.250 in, Rotational Molded	> 190	ft·lb	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	144	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	105	°F	

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.051 in/min