



Icorene 3550-35G

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

Product Description

Icorene 3550 is a linear low density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

General

Additive	• UV Stabilizer		
Features	• UV Stabilized		
Uses	• Agricultural Tanks • General Purpose	• Outdoor Applications • Pallets	• Septic Tanks • Toys
Appearance	• Natural Color		
Forms	• Powder		
Processing Method	• Rotational Molding		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (Natural)	0.932 to 0.937	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5 to 5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693A
10% Igepal, F50	100	hr	
100% Igepal, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Rotational Molded)	2600	psi	ASTM D638
Tensile Elongation ² (Break, Rotational Molded)	500	%	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	102000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	55	ft-lb	
-40°F, 0.250 in, Rotational Molded	> 190	ft-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Rotational Molded	136	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	102	°F	

Notes

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

² 2.0 in/min