

Technical Data Sheet

Icorene 3933

Linear Medium Density Polyethylene
LyondellBasell Industries
Rotomolding

General			
Additive	• UV Stabilizer		
Features	• Copolymer • Food Contact Acceptable • Good Processability	• Good Stiffness • Hexene Comonomer • High ESCR (Stress Crack Resist.)	• UV Resistant
Agency Ratings	• FDA 21 CFR 177.1520		
Appearance	• Natural Color		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.939 g/cm ³	0.939 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	3.3 g/10 min	3.3 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693A
10% Igepal	145 hr	145 hr	
100% Igepal	> 1000 hr	> 1000 hr	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2970 psi	20.5 MPa	ASTM D638
Tensile Elongation ¹ (Break)	> 1000 %	> 1000 %	ASTM D638
Flexural Modulus ²	110000 psi	760 MPa	ASTM D790

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	140 °F	60.0 °C	
264 Psi (1.8 Mpa), Unannealed	106 °F	41.0 °C	

Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Accelerated Aging	11.0 month	11.0 month	ASTM G26

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.