

ICORENE® 1877

Linear Low Density Polyethylene

Product Description

ICORENE® 1877 is a linear low density polyethylene powder specifically developed for rotational moulding.

ICORENE® 1877 is suitable for use in general purpose applications. It has a good balance of properties such as toughness and stiffness.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Balanced Stiffness/Toughness	• General Purpose	• Good UV Resistance
Uses	• Containers	• General Purpose	• Tanks
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.936 g/cm ³	0.936 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2 g/10 min	4.2 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2470 psi	17.0 MPa	ASTM D638
Flexural Modulus	79800 psi	550 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	3.82 in·lb/mil	170 J/cm	Internal Method

Notes

¹ Based on ISO 6603