

Technical Data Sheet

# Icorene 1877

Linear Medium Density Polyethylene  
 LyondellBasell Industries  
 Rotomolding

## Product Description

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

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

## General

Additive	• UV Stabilizer		
Features	• Balanced Stiffness/Toughness	• General Purpose	• UV Resistant
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 <sup>3</sup>	0.936 g/cm <sup>3</sup>	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 <sup>1</sup> (-4°F (-20°C))	3.82 in·lb/mil	170 J/cm	Internal Method

## Notes

<sup>1</sup> Based on ISO 6603

## Notes

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