

Technical Data Sheet

Icorene 3855

Medium Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 3855 is a hexene medium density polyethylene with outstanding processability, 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, easy flow and stiffness.

General

Additive	• UV Stabilizer	
Features	• Good Processability • Good Stiffness	• Good Toughness • UV Resistant
Uses	• Containers	• General Purpose
Appearance	• Natural Color	• Unspecified Color
Forms	• Powder	
Processing Method	• Rotational Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.938 g/cm ³	0.938 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2760 psi	19.0 MPa	ISO 527
Tensile Elongation (Break)	> 700 %	> 700 %	ASTM D638
Flexural Modulus	109000 psi	750 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	4.27 in·lb/mil	190 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	55	55	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	241 °F	116 °C	ISO 306
Melting Temperature	261 °F	127 °C	DSC

Notes

¹ Based on ISO 6603

Notes

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