

Technical Data Sheet

Icorene 1210

Linear Low Density Polyethylene
LyondellBasell Industries
Rotomolding

Product Description

ICORENE® 1210 is a hexene linear low density polyethylene specifically developed for use in rotational moulding.

This grade is designed for applications requiring toughness and flexibility and is suitable for use in many applications such as marine buoys, street furniture, or intermediate bulk containers (IBCs).

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.926 g/cm ³	0.926 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) 122°F (50°C), 10% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2030 psi	14.0 MPa	ISO 527
Tensile Elongation (Break)	> 1300 %	> 1300 %	ASTM D638
Flexural Modulus (73°F (23°C))	72500 psi	500 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹ (-4°F (-20°C))	> 4.50 in-lb/mil	> 200 J/cm	Internal Method
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D)	52	52	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Annealed	129 °F	54.0 °C	ISO 75-2/B
Vicat Softening Temperature	225 °F	107 °C	ISO 306/A
Melting Temperature	257 °F	125 °C	ASTM D2117

Additional Information

store inside

Notes

¹ Based on ISO 6603

Notes

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