

Technical Data Sheet

Icorene 9103 GW1 Natural 0000

High Density Polyethylene

LyondellBasell Industries

Rotomolding

Product Description

ICORENE® 9103 GW1 Natural 0000 is a hexene high density polyethylene specifically developed for use in rotational moulding applications.

This grade has a good balance of properties such as toughness, easy flow, stiffness and a glow wire (GW) flammability index of 750°C for 3mm thickness.

General			
Features	• Glow in the Dark • Good Flow	• Good Toughness • High Rigidity	• High Stiffness • UV Resistant
Uses	• General Purpose		
Appearance	• Natural Color		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	> 0.943 g/cm³	> 0.943 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 Kg)	3.2 g/10 min	3.2 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation (Break)	> 1000 %	> 1000 %	ASTM D638
Flexural Modulus	123000 psi	850 MPa	ASTM D790
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	63	63	ASTM D2240
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Glow Wire Flammability Index 0.12 In (3.0 Mm)	1380 °F	750 °C	IEC 60695-2-12

Notes

¹ Based on ISO 6603

Notes

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