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			IEC 60695-2-12
0.12 In (3.0 Mm)	1380 °F	750 °C	

Notes

[1] Based on ISO 6603

Notes

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