

ICORENE® 4014WF

Polypropylene Copolymer
Rotomolding

Product Description

ICORENE® 4014WF is a polypropylene copolymer that has been specifically developed for rotational moulding.

This grade is UV stabilised and has improved impact resistance.

ICORENE® 4014WF is suitable for applications requiring high stiffness and high temperature resistance.

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Impact Resistance • High Heat Resistance	• High Stiffness • UV Resistant	
Uses	• Automotive Under the Hood	• Displays	• High Temperature Applications
Appearance	• Natural Color	• Unspecified Color	
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 g/10 min	15 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	3050 psi	21.0 MPa	
Break	3050 psi	21.0 MPa	
Tensile Elongation			ASTM D638
Yield	13 %	13 %	
Break	97 %	97 %	
Flexural Modulus	174000 psi	1200 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Drop Impact Resistance ¹			Internal Method
32°F (0°C)	1.91 in·lb/mil	85.0 J/cm	
73°F (23°C)	2.81 in·lb/mil	125 J/cm	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	
264 psi (1.8 MPa), Unannealed	122 °F	50.0 °C	
Melting Temperature	329 °F	165 °C	DSC

Notes

¹ based on ISO 6603

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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