ICORENE® 1613 BK85

Linear Low Density Polyethylene

ICO Europe

IDES | Prospector

Product Description

ICORENE® 1613 BK85 is a hexene linear low densi-ty polyethylene specifically developed for use in rotational moulding.

ICORENE® 1613 BK85 is designed for applications requiring good processability, stiffness and toughness. This product is particularly suitable for the production of diesel fuel tanks.

TUV ECE R34 tested

General

Material Status	• Commercial: Active		
Availability	• Europe	• South America	
Additive	• UV Stabilizer		
Features	• Good Impact Resistance • Good Processability	• Good Stiffness • Good Toughness	• Good UV Resistance • Hexene Comonomer
Uses	• Fuel Tanks		
Appearance	• Black		
Forms	• Powder		
Processing Method	• Rotational Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 100% Igepal	> 1000	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	850	MPa	ASTM D638
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Break)	> 1000	%	ASTM D638
Flexural Modulus	750	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Drop Impact Resistance [2] (-20°C)	> 200	J/cm	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	62		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
0.45 MPa, Unannealed	65.0	°C	

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Based on ISO 6603

Revision History
Document Created: Wednesday, May 09, 2012
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