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Technical Data Sheet

lyondellbasell

Icorene 1615

Linear Medium Density Polyethylene LyondellBasell Industries Rotomolding

Product Description

ICORENE® 1615 is a hexene linear medium density polyethylene specifically developed for use in rotational molding.

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

ICORENE® 1615 is TUV ECE R34 approved, protocol no: 2	205XS0179-00.

General			
Additive	 UV Stabilizer 		
Features	 Good ESCR (Stress Crack Resist.) Good Processability 	 Good Stiffness Good Toughness	UV Resistant
Uses	 Agricultural Tanks Heavy Transportation	 Lawn and Garden Equipment Outdoor Applications	
Appearance	Black		
Forms	Powder		
Processing Method	 Rotational Molding 		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.939 g/cm ³	0.939 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°c/2.16 Kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°f (50°c), 10% Igepal, F50	50.0 hr	50.0 hr	
122°f (50°c), 100% Igepal, F50	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2920 psi	20.1 MPa	ASTM D638
Tensile Elongation (Break)	230 %	230 %	ASTM D638
Flexural Modulus - 1% Secant	116000 psi	801 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
-40°f (-40°c), 0.125 In (3.18 Mm), Rotational Molded	> 58 ft·lb	> 79 J	
-40°f (-40°c), 0.250 In (6.35 Mm), Rotational Molded	> 190 ft·lb	> 258 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed ¹	144 °F	62.0 °C	
264 Psi (1.8 Mpa), Unannealed	102 °F	38.8 °C	

Notes

¹ Rotational Molded

Notes

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