

# Icorene 1615-3442 PELLET

## LyondellBasell Industries - Linear Medium Density Polyethylene

### General Information

#### 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: 205XS0179-00.

#### General

Additive	<ul style="list-style-type: none"> <li>UV Stabilizer</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Good ESCR (Stress Crack Resist.)</li> <li>Good Processability</li> </ul>	<ul style="list-style-type: none"> <li>Good Stiffness</li> <li>Good Toughness</li> </ul>	<ul style="list-style-type: none"> <li>UV Resistant</li> <li>UV Stabilized</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Agricultural Tanks</li> <li>Heavy Transportation</li> </ul>	<ul style="list-style-type: none"> <li>Lawn &amp; Garden Equipment</li> <li>Outdoor Applications</li> </ul>	
Appearance	<ul style="list-style-type: none"> <li>Black</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>Powder</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Rotational Molding</li> </ul>		

### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F, 10% Igepal, F50	50.0	hr	
122°F, 100% Igepal, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2920	psi	ASTM D638
Tensile Elongation (Break)	230	%	ASTM D638
Flexural Modulus - 1% Secant	116000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	> 58	ft-lb	
-40°F, 0.250 in, Rotational Molded	> 190	ft-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Rotational Molded	144	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	102	°F	