

Petrothene® GA635662

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA635662 is a high flow hexene LLDPE resin for the rotational molding of large hollow objects, including toys, playground equipment, drums and agricultural and chemical storage containers. GA635662 exhibits excellent ESCR, low temperature impact strength and warp resistance. GA635662 is UV-stabilized and is available in a 35 mesh powder as Microthene MP635662.

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	Low Temperature Impact Resistance		
	Warp Resistant		
Uses	Agricultural Applications		
	Containers		
	Drums		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, Rotational Molded, F50	92.0	hr	
100% Igepal, Rotational Molded, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.18 mm, Rotational Molded)	17.2	MPa	ASTM D638
Flexural Modulus - 1% Secant (3.18 mm, Rotational Molded)	601	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact ²			ARM
-40°C, 250.0 µm	203	J	
-40°C, 3.18 mm	61.0	J	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 3.18 mm, Rotational Molded	50.0	°C
1.8 MPa, Unannealed, 3.18 mm, Rotational Molded	35.0	°C
NOTE		
1.	Type IV, 51 mm/min	
2.	Type IV, Rotomolded	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

