

Petrothene® GA655962

High Density Polyethylene

LyondellBasell Industries

Message:

Petrothene GA655662 is a rotational molding pellet that produces items with very smooth inner surface under a wide range of processing conditions. GA655662 can be used to make a variety of rotomolded items including light globes, storage containers, traffic crash barriers, ducting and equipment housings. GA655662 exhibits excellent impact strength at both room temperature and -40°F. This resin also has good warp resistance and stiffness. This resin is also available in powder form as Microthene MP655662.

General Information			
Additive	UV Stabilizer		
Features	Good Impact Resistance		
	Good Stiffness		
	Low Temperature Impact Resistance		
	Warp Resistant		
Uses	Containers		
	Housings		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	30.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.8	MPa	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	993	MPa	
2% Secant	841	MPa	
Impact	Nominal Value	Unit	Test Method
ARM Impact			
-40°C, 3.18 mm	47.5	J	
-40°C, 6.35 mm	183	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	66.0	°C	
1.8 MPa, Unannealed	42.0	°C	
NOTE			
1.	51 mm/min		

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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

