

Petrothene®

GA625662

Linear Low Density Polyethylene

Rotational Molding Grade

Melt Index 5.0 Density 0.935

Applications

PETROTHENE GA625662, a hexene LLDPE, pelletized rotational molding resin with excellent flow properties, can be used to produce a variety of objects such as toys, playground equipment, drums and agricultural and chemical storage containers. GA625662 exhibits excellent ESCR, low temperature impact strength and warp resistance. It is UV-stabilized and available in a 35-mesh powder as MICROTHENE® MP625662.

Regulatory Status

GA625662 meets the requirements of Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for conditions under which GA625662 should be processed can be made only when the end use and type of processing equipment are known. For exact recommendations, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method	Sample
Melt Index (190/2.16)	5.0	g/10 min	D 1238	Pellets
Density	0.935	g/cc	D 1505	Compression molded
ESCR, Condition A, F ₅₀				
100% Igepal®, CO-630	>1,000	hrs	D 1693	Rotomolded**
10% Igepal®, CO-630	350	hrs	D 1693	Rotomolded**
Flexural Modulus, 1 % Secant	87,200	psi	D 790	Rotomolded**
Tensile Strength @ Yield, 2"/min.*	2,490	psi	D 638	Rotomolded**
Heat Distortion Temperature				
@ 66 psi	52	°C	D 648	Rotomolded**
@ 264 psi	39	°C	D 648	Rotomolded**
Low Temperature Impact				
1/8" specimen	45	ft-lbs	ARM STD	Rotomolded**
1/4" specimen	150		(-40°F impact)	Rotomolded
Meets FDA Requirements	yes			
UV-stabilized	yes			

* Type IV Specimen

** Thickness of specimen is 1/8".

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