



Formosa Plastics®

Technical Data Sheet

Formolene® LLDPE

Formolene L63550U4

Melt Index – 5.0

Density – 0.935

Linear Low Density Polyethylene Hexene Copolymer for Rotational Molding

Formolene L63550U4 is a general-purpose rotational molding linear low density resin made using the BP Gas Phase Process™. The resin exhibits excellent ESCR and low temperature impact strength. The resin is also fully UV stabilized.

Formolene L63550U4 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications

Toys	Medium Tanks
Playground Equipment	Drums
Agricultural and Chemical Storage Tanks	

Nominal Physical Properties

PROPERTY	TEST METHOD	UNIT	VALUE
Density	D1505	g/cc	0.935
Melt Index, Condition E, 190°C/2.16 kg	D1238	g/10 min.	5.0
Flexural Modulus (1.3 mm/min)	D790	psi.	100,000
Tensile Strength at Yield, (50 mm/min)	D638	psi.	2,700
Tensile Elongation at Yield, (50 mm/min)	D638	%	11.8
Heat Deflection Temperature, (66 psi.)	D648	°C	50
Low Temperature Impact*	ARM	ft-lbs.	45
Environmental Stress Crack Resistance, ESCR**, Condition A, F ₅₀	D1693		
100% Igepal		hrs	>1,000
10% Igepal		hrs	300

* Tested using 1/8 inch specimen at -40°C

** ESCR values were obtained using compression molded samples

Published 08/04 Rev. 11/05

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3 • Fax: (973) 716-7230

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting the results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. The responsibility of FORMOSA PLASTICS CORPORATION, U.S.A. for claims arising out of breach of warranty, negligence, strict liability or otherwise is limited to the purchase price of the material. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

Printed in the the USA on recycled paper

Formolene® is a registered trademark of FPC USA

©Formosa Plastics Corporation, U.S.A.



ISO 9001:2000
FS 70459
FM 31429



ISO 14001
EMS 35710

