



Formosa Plastics®

Formolene® LLDPE

# Formolene® L63550U

Linear Low Density Polyethylene  
Hexene Copolymer for Rotational Molding

Formolene® L63550U 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. Formolene® L63550U is also fully UV stabilized.

Formolene® L63550U 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   | ASTM TEST METHOD | UNIT      | VALUE   |
|--|------------------|-----------|---------|
| Density  | D1505            | g/cc      | 0.935   |
| Melt Index, Condition E,<br>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,<br>ESCR**, Condition A, F <sub>50</sub> | 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 8/04, Revised 8/10

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ISO 9001:2008  
FS 70459  
FM 31429



ISO 14001:2004  
EMS 35710

