

Formosa Plastics Formolene® HL4506 Blow Molding HDPE (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Extra High Molecular Weight Hexene Copolymer Applications: Multi-layer fuel tanks, mono-layer fuel tanks, industrial bulk containers (IBC) Formolene HL4506 is intended for large part blow molding applications. Besides having excellent fuel resistance properties HL4506 HDPE has outstanding environmental stress crack resistance properties and exceptional impact properties. Formolene HL4506 meets all requirements of ASTM - Type III, Category 5 and ASTM 4967-89-PE235. Produced using licensor formulation for C579. Licensor does not warrant or imply that this product meets their specifications for C579. Nominal properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928. Physical properties are typical of product but do not reflect normal testing variance and therefore should not be used for specification purposes. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HL4506-Blow-Molding-HDPE-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|-----------------------------------|-----------------------------------|---|
| Density | 0.945 g/cc | 0.0341 lb/in ³ | ASTM D1505 |
| Environmental Stress Crack Resistance | >= 2000 hour | >= 2000 hour | Condition A (100% Igepal), F₅₀; ASTM D1693 |
| | >= 2000 hour | >= 2000 hour | Condition B (10% Igepal), F₅₀; ASTM D1693 |
| High Load Melt Index | 5.0 g/10 min | 5.0 g/10 min | ASTM D1238 |
| | @Load 21.6 kg, Temperature 190 °C | @Load 47.6 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|-----------|---------------------------------------|
| Hardness, Shore D | 66 | 66 | ASTM D2240 |
| Tensile Strength, Yield | 22.1 MPa | 3200 psi | 2" (50mm) per min.; ASTM D638 Type IV |
| Elongation at Break | >= 600 % | >= 600 % | 2" (50mm) per min.; ASTM D882 |
| Flexural Modulus | 1.03 GPa | 150 ksi | ASTM D790 |
| Dynatup @ -30°C | 475 J | 350 ft-lb | Tensile Impact |

| Thermal Properties | Metric | English | Comments |
|---|-------------|------------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 73.0 °C | 163 °F | ASTM D648 |
| Vicat Softening Point | 127 °C | 261 °F | ASTM D1525 |
| Brittleness Temperature | <= -79.4 °C | <= -111 °F | ASTM D746 |

Thermal Properties

Metric

English

Comments

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