

EVALENE® HDPE HJ04602

High Density Polyethylene

JG Summit Petrochemical Corporation

Message:

EVALENE ® HJ04602 is a narrow molecular weight distribution resin intended to deliver robust performance for applications requiring toughness, balanced mechanical properties and good processability. EVALENE ® HJ04602 is designed to meet the rigorous processing requirements of high-speed injection and compression molding equipment, offering opportunities to achieve better economics without compromising performance.

FEATURES

Medium Flow

Excellent Izod impact Strength

High environmental stress crack resistance (ESCR)

Outstanding organoleptics*

Meets Philippine FDA food contact requirements

Halal-certified

TYPICAL APPLICATIONS

Beverage caps for mineral water, juice and tea drinks

| General Information | | | |
|--|--|-------------------|-----------------|
| Features | Excellent Organoleptic Properties High ESCR (Stress Cracking Resistance) High density Impact resistance, high Workability, good Medium liquidity Good toughness Compliance of Food Exposure Narrow molecular weight distribution | | |
| Uses | Shield | | |
| Forms | Particle | | |
| Processing Method | Compression molding Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density ¹ | 0.960 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 4.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (48 hours) | 1.2 - 1.6 | % | Internal method |
| Environmental Stress-Cracking Resistance (10% Igepal, F50) | 4.00 | hr | ASTM D1693B |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 62 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus - 1% Secant ² | 1370 | MPa | ASTM D638 |

| | | | |
|--|---------------|------|-------------|
| Tensile Strength ³ | | | ASTM D638 |
| Yield | 26.0 | MPa | ASTM D638 |
| Fracture | 11.0 | MPa | ASTM D638 |
| Tensile Elongation ⁴ | | | ASTM D638 |
| Yield | 17 | % | ASTM D638 |
| Fracture | 1200 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ⁵ | 780 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact ⁶ (23°C) | 180 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 78.0 | °C | ASTM D648 |
| Additional Information | Nominal Value | Unit | |
| Compression Molding Temperature | 150 - 190 | °C | |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 180 - 220 | °C | |
| Mold Temperature | 20 - 40 | °C | |
| NOTE | | | |
| 1. | 23°C | | |
| 2. | 5.0 mm/min | | |
| 3. | 50 mm/min | | |
| 4. | 50 mm/min | | |
| 5. | 1.3 mm/min | | |
| 6. | Partial Break | | |

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