

EVALENE® PP PHY0351

Polypropylene Homopolymer

JG Summit Petrochemical Corporation

Message:

PP is used in making films, adhesive tapes, cigarette and candy wrappers, cosmetics, pharmaceutical and food packaging materials.

High Clarity. Hot-Fill Applications. Living Hinge.

Evalene® Random Copolymer PP is widely used in the following applications:

Injection Molding: Houseware, lunch boxes and pencil cases with "living hinges"

Blow Molding: Baby bottles, bottles for juice, tea, water, medicine, and cosmetics

Good Economics. Hot-Fill Applications. Excellent Film Clarity. Good Tenacities.

Evalene® Homopolymer PP is the material of choice for a host of applications:

Tape Extrusion: Woven bags for rice, cement and industrial chemicals

Films: Bi-axially oriented, cast and inflation films for tapes, packaging, and labels

Injection Molding: Monobloc furnitures, pails, houseware, containers, toys, caps

Thermoforming: Fastfood containers, mineral water cups

| General Information | | | |
|--|------------------------|----------|-------------|
| Features | Homopolymer | | |
| Uses | Bags | | |
| | Furniture | | |
| | Rope | | |
| | Textile Applications | | |
| | Yarn | | |
| Agency Ratings | FDA Unspecified Rating | | |
| Forms | Pellets | | |
| Processing Method | Filament Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.5 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 98 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus - 1% Secant ¹ (Injection Molded) | 1400 | MPa | ASTM D638 |
| Tensile Strength ² (Yield, Injection Molded) | 35.0 | MPa | ASTM D638 |
| Tensile Elongation ³ (Yield, Injection Molded) | 22 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ⁴ (Injection Molded) | 1200 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, Injection Molded) | 26 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|--|-----------------------|------|------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded) | 85.0 | °C | ASTM D648 |
| Peak Melting Temperature ⁵ | 162 | °C | ASTM D3418 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 210 to 230 | °C | |
| NOTE | | | |
| 1. | 5.0 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 50 mm/min | | |
| 4. | 1.3 mm/min | | |
| 5. | 10°C/min, 2nd heating | | |

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