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HDPE made via Spherilene Process



Product data sheet HD-60507/UV

60507 is a HDPE homopolymer which is manufactured in gas phase process for injection molding grade which combines good flowability with balanced physical properties. This resin is well suited for general purpose application requiring high stiffness.

HDPE: HD-60507/UV

Density: 0.958

MFI: 7.5

Features



- Good flowability with balanced physical properties.

Applications



- Crates
Injection molding grade

Additives



- HD-60507:
Thermal Antioxidant
- HD-60507UV:
Thermal Antioxidant
UV Stabilizer

Material properties (This data are typical values and are not to be construed as product specifications.)

| Resin Properties | Unit | Value | Test Method |
|-----------------------------|-------------------|-------|-------------|
| Melt Index | g/10 min | 7.5 | D1238 |
| Density | g/cm ³ | 0.958 | D1505 |
| Thermal Properties | Unit | Value | Test Method |
| Vicat Softening Point | °C | 127 | D1525 |
| Molded Properties | Unit | Value | Test Method |
| Tensile Strength at Yield | Mpa | 30 | D638 |
| Tensile Strength at Break | Mpa | 13 | D638 |
| Ultimate Elongation | % | 350 | D638 |
| Flectural Modulus | Mpa | 1500 | D790 |
| Notched Izod Impact @ 23 °C | J/m | 36 | D256/A |



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Handelling and Health Safty

Molten polymers could be injured skin or eye so safty glass- es and appropriate gloves are suggested to prevent possible thermal injuries. Also appropriate ventilation is suggested in working by melt polymer.

Accumulation of fines or dust particles that are in this grade is not suitable because of explosion hazard probability. So adequated filters and grounding exists at all time are rec- ommended.

Storage

Polyethylen products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. . JPC would not resspnsible about quality diminishing such as color change, bad smell or ets which caused by bad storage conditions. It is better to process PE resin within 6 months after delivery.

pakaging

Jam Polymers Polyolefin resins are supplied in pllet form packed in 25kg bags. Alternative packaging modes are aval- able for selected grades.

- On compression molded according to ASTM D 1928 C 25 micron film obtained on collin 25

Processing Conditions

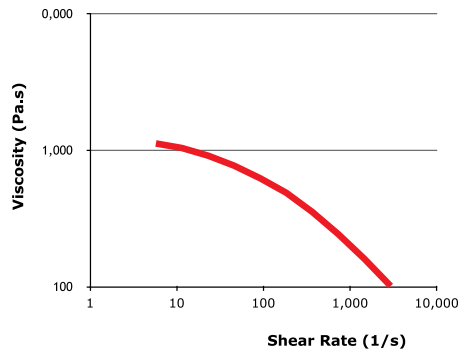
Melt Temperature (°C): 280 -190

Blow up Ratio: 3.0 -2.0

Die Gap (mm): 2.5-2.0

Thickness (micron) : 150-15

Shear-Viscosity @ T190 °C



The above values were Calculated from data for 100 µm produced on a 75mm Barrnage extruder with 190°C melt tem- perature using a 2:1 blow ratio and a gap die of 3.0 mm.

