



HDPE made via Spherilene Process



Product data sheet

HD-52518

HD-52518 is a HDPE copolymer which manufactured by gas phase process. This grade is LLDPE Injection Moulding, Extrusion Coating & Rotomoulding. Injection molding for application requiring a good balance between easy of processability and flowability and mechanical properties are the special perpose of this grade.

HDPE: HD-52518

Density: 0.952

MFI: 18

Features

- Good balance between easy of processability and flowability

Applications

- Housewares
High fluidity



Additives

- Thermal Antioxidant



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

| Resin Properties | Unit | Typical Value | Test Method |
|-----------------------------|-------|---------------|-------------|
| Melt Index | g/10' | 18 | D1238 |
| Density | g/cc | 0.952 | D1505 |
| Thermal Properties | Unit | Typical Value | Test Method |
| Vicat Softening Point | °C | 122 | D1525 |
| Molded Properties | Unit | Typical Value | Test Method |
| Flectural Modulus | Mpa | 1350 | D790 |
| Notched Izod Impact @ 23 °C | J/m | 25 | D256/A |



Handelling and Health Safety

Molten polymers could be injured skin or eye so safety glasses 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 adequate filters and grounding exists at all time are recommended.

Storage

Polyethylene 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 responsible 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.

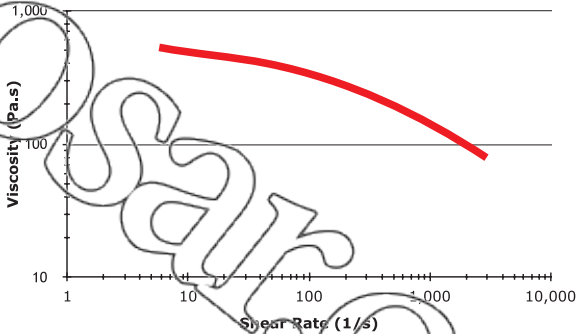
packaging

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

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- On compression molded according to ASTM D1928C
Processing Conditions
Recommended barrel temperatures range between 190 °C and 280 °C.

Shear-Viscosity @ 190 °C



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

