



HDPE made via Spherilene Process



Product data sheet HD-52505/UV

52505 is a HDPE copolymer which is manufactured in gas phase process. This grade is an injection molding grade for applications requiring a good physical property even at low temperatures, like pails, containers and technical moldings.

HDPE: 52505/UV

Density: 0.952

MFI: 5

Features



- Good physical property even at low temperatures.

Applications



- Containers.

Additives



- HD-52505:
Thermal Antioxidant
- HD-52505UV:
Thermal Antioxidant
UV Stabilizer

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

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Resin Properties	Unit	Typical Value	Test Method
Melt Index	g/10 min	5	D1238
Density	g/cm ³	0.952	D1505
Thermal Properties	Unit	Typical Value	Test Method
Vicat Softening Point	°C	124	D1525
Molded Properties	Unit	Typical Value	Test Method
Flectural Modulus	Mpa	1200	D790
Tensile Strenght at Yield	Mpa	27	D638
tensile Strenght at Break	Mpa	18	D638
H.D.T	°C	82	D648
Notched Izod Impact @ 23 °C	J/m	55	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

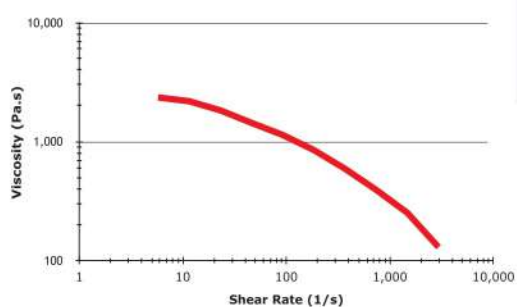
Jam Polymers Polyolefin resins are supplied in pllet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

- On compression molded according to ASTM D1928C

Processing Conditions

Recommended barrel tempratures 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.