RUSPETROCHEM

Product data sheet

HDPE made via Spherilene Gas-Phase Technology

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: 52505/52505UV | **Density: 0.950-0.954** | **MFI: 4-6**

Characteristic Properties

- Good physical property even at low temperatures.

Main Applications

- Containers.

Additives

HD-52505:
- Thermal Antioxidant (Process Stabilizer)
- Catalyst neutralizer (acid scavenger, lubricant)

HD-52505 UV:
- Thermal Antioxidant (Process Stabilizer)
- Antiblocking Agent
- Catalyst neutralizer (acid scavenger, lubricant)
- UV Stabilizer

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 (190°C/ 2.16Kg)	(g/10 min)	5	D1238
Density	g/ml	0.952	D1505
Thermal Properties @	**Unit**	**Typical Value**	**Test Method**
Vicat Softening Point	(°C)	124	D1525
Moulded Properties @	**Unit**	**Typical Value**	**Test Method**
Flexural Modulus	(MPa)	1200	D790
Tensile Strength at yield	(MPa)	27	D638
Tensile Strength at break	(MPa)	13	D638
H.D.T	(°C)	67	D648
Notched Izod Impact @ 23 °C	(J/m)	29	D256/A

Handling 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 adequated filters and grounding exists at all time are recommended.

Storage

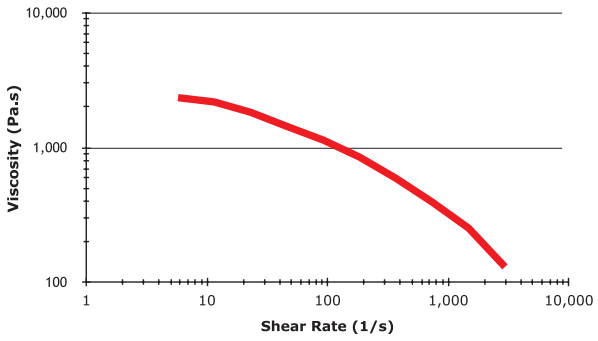
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties.The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. JPC would not ressponsible 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 Pellet form packed in 25kg bags. Alternative packaging modes are avalable for selected grades.

@ On compression moulded 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.