JAM Petrochemical Company

JPC

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 phisycal peoperties.*

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	Typical Value	Test Method
Melt Index	g/10 min	7.5	D1238
Density	g/cm³	0.958	D1505
Thermal Properties	**Unit**	**Typical Value**	**Test Method**
Vicat Softening Point	°C	127	D1525
Molded Properties	**Unit**	**Typical Value**	**Test Method**
Tensile Strenght at Yield	Mpa	30	D638
Tensile Strenght at Break	Mpa	13	D638
Ultimate Elongation	%	350	D638
Flectural Modulus	Mpa	1500	D790
Notched Izod Impact @ 23 °C	J/m	36	D256/A

Handellling and Health Safety

sMolten 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.

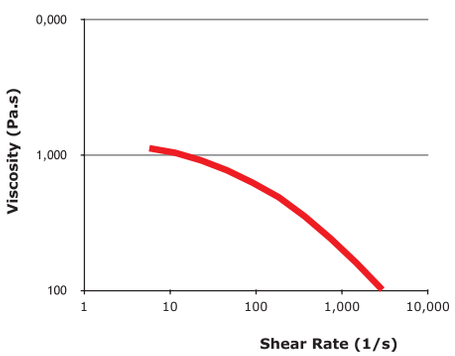
packaging

Jam Polymers Polyolefin resins are supplied in pllet form packed in 25kg bags. Alternative packaging modes are available 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 temperature using a 2:1 blow ratio and a gap die of 3.0 mm.