



Product data sheet

➤ HDPE made via Spherilene Gas-Phase Technology



**HD-60505**  
**HD-60505UV**

60505 is a HDPE injection molding grade which combines high stiffness with good physical properties. This resin is well suited for crates and toys applications.

**HDPE: 60505/60505UV**

**Density: 0.956-0.960**

**MFI: 4.5-6.5**

**Characteristic Properties**



- High stiffness with good physical properties.

**Main Applications**



- injection molding grade
- Crates
- toys applications

**Additives**



- 60505:
- Thermal Antioxidant (Process Stabilizer)
- Catalyst neutralizer (acid scavenger, lubricant)
- 60505UV:
- Catalyst neutralizer (acid scavenger, lubricant)
- UV Stabilizer
- Thermal Antioxidant (Process Stabilizer)

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

Resin Properties	Unit	Typical Value	ASTM Method
Melt Index (190°C/ 2.16Kg)	(g/10 min)	5.5	D1238
Density	g/ml	0.9570	D1505
<b>Physical properties @</b>			
Flexural modulus	(MPa)	1460	D790
Notched Izod impact at 23°C	(J/m)	30	D256/A
Vicat softening point	(°C)	125	D1525
@ on compression moulded specimen obtained according to ASTM D 1928°C			
<b>Fabrication conditions for injection moulding</b>			
Recommended barrel temperatures range between 190 and 280°C			



### 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.

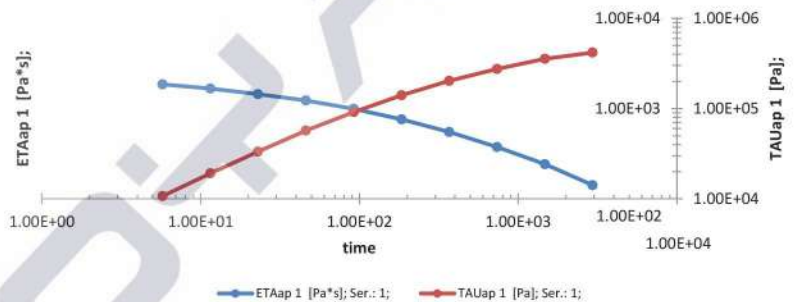
Accumulation of fines or dust particles that are in this grade is not suitable because of explosion hazard probability. So adequate filters and grounding exists at all time are recommended.

### 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 Pellet form packed in 25kg bags. Alternative packaging modes are available for selected grades.



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.