

Product Data Sheet

HD52505/HD52505UV

High Density Polyethylene

Product Description

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.

Applications:

Containers.

Characteristic Properties

Good physical property even at low temperatures.

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

Density: 0.950-0.954 **MFI:** 4-6

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. We 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

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