

## Technical Datasheet of High Density Polyethylene HD-52505UV

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
<b>Features</b> <ul style="list-style-type: none"> <li>• Good physical property even at low temperatures.</li> </ul>	<b>Applications</b> <ul style="list-style-type: none"> <li>• Containers.</li> </ul>	<b>Additives</b> <ul style="list-style-type: none"> <li>• HD-52505: Thermal Antioxidant</li> <li>• HD-52505UV: Thermal Antioxidant UV Stabilizer</li> </ul>

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	5	D1238
Density	g/cm <sup>3</sup>	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

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.



 Unit 302, Sheydayee BLD, Sazman AB, Tehranpars

 <https://irplastics.com/en>

 +98-21-77784838

