PRODUCT DATA SHEET

# HD52505
# HD52505UV

*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: HD52505 | HD52505UV**

**Characteristic Properties**

- Good physical property even at low temperatures.

**Density: 0.950 - 0.954**

**Main Applications**

- Caps and closures for mineral water bottles
- Caps for sparkling water and carbonated soft drinks, beverage caps.

**MFI: 4 - 6**

**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/cm³ | 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 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 |









