# InnoPlus HD6001C

High Density Polyethylene

PTT Global Chemical Public Company Limited

## Message:

InnoPlus HD6000C and HD6001C are high density polyethylene with outstanding environmental stress cracking resistance (ESCR). Thanks to stress cracking resistance outperforming, these grades are suitable for beverage caps and closures for new caps design. They show good processability in either injection molding or compression molding machine.
Additive
InnoPlus HD6000C with slip agent.
InnoPlus HD6001C without slip agent.
Typical Application : Beverage caps for mineral, stilled, sparkling water and carbonated soft drink.

| General Information | |
|---|---|
| Features | Food Contact Acceptable<br>Good Processability<br>High ESCR (Stress Crack Resist.) |
| Uses | Caps<br>Closures |
| Agency Ratings | FDA 21 CFR 177.1520 |
| Forms | Pellets |
| Processing Method | Compression Molding<br>Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.957 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.40 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (25% Igepal, F50) | 390 | hr | ASTM D1693B |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 66 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield | 31.4 | MPa | |
| Break | 38.2 | MPa | |
| Tensile Elongation (Break) | 1000 | % | ASTM D638 |
| Apparent Bending Modulus | 1080 | MPa | ASTM D747 |
| Flexural Modulus | 1370 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact [1] | 170 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Vicat Softening Temperature | 125 | °C | ASTM D1525 [2] |
| Peak Melting Temperature | 132 | °C | ASTM D3418 |

| Additional Information | Nominal Value | Unit |
|---|---|---|
| Compression Molding Temperature | 160 to 190 | °C |

| Injection | Nominal Value | Unit |
|---|---|---|
| Processing (Melt) Temp | 180 to 215 | °C |

| NOTE | |
|---|---|
| 1. | Partial Break |
| 2. | Rate A (50°C/h), Loading 1 (10 N) |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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