



ASPC

Process Optimization*Doc
Name:*Product Data sheet - High Density polyethylene
HCM 4265*Page: 1 of 2**Doc
No.*

TEC-PRO-PDS-013

Rev: 4

Typical Data

كوثر شيمي
Kosar Shimi
+9821 - 43462000
info@kosar.co
www.kosar.co

| Properties | Value | unit | Test method |
|---|-------|--------|-------------|
| Physical Properties | | | |
| Density (23 °C) | 942 | kg/m3 | ISO 1183 |
| MFI (190 °C /21.6Kg) | 6.5 | dg/min | ISO 1133 |
| Bulk Density | >0.50 | g/cm3 | ISO 60 |
| Mechanical properties | | | |
| Tensile Modulus of Elasticity | 800 | MPa | ISO527 |
| Notched Tensile impact strength(-30 °C) | 160 | kJ/m2 | ISO 8256 |
| ESCR(bottle test) | 4000 | h | Basell |
| Additive :Antioxidant – Heat stabilizer | | | |

Notes:

Typical values: not to be construed as specifications

Application

HCM 4265 is suitable for container and UN Jerry Cans (pesticides, surface active liquids), jerry cans, smaller jerry cans also for coextrusion UN Bottles, IBC.

General information

HCM4265 has been manufacture/using Basell Lupotech G licensed technology

| | | | |
|---|-----------------------------|---|---------------------|
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Packaging

Supplied in pellet form and can be packaged in 25Kg Bags, one ton semi bulk or 17 tons bulk containers.

Food packaging

The above mentioned grade meets the relevant requirements of plastics directive 2002/72/EC (06-08-2002) and its amendments till directive 2008/39EC relating to plastic materials and articles intended to come into contact with foodstuffs.

Pharmaceutical Application

The above mentioned grade meets the requirements of the European pharmacopeia version 6 section 3.1.5 for pharmaceutical application.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

1. be equipped with adequate filters
2. is operated and maintained in such a manner to ensure no leaks develop
3. that adequate grounding exists at all times

We further recommended that good housekeeping will practiced throughout the facility

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight and/or heat during storage. The storage location should also be dry, dust free and the ambient temperature should not exceed 50. It is also advisable to process polyethylene resins (in pelletized or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

Handling

Minimal protection to prevent possible mechanical injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapors.

Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources .in burning; polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.