

## Product Data sheet -High Density polyethylene HCH 5510

TEC-PRO-PDS-012

### Typical Data

Properties	Value	Unit	Test method
<b>Physical Properties</b>			
Density (23 °C)	955	Kg/m <sup>3</sup>	ISO 1183
MFI (190 °C /21.6 Kg )	10	dg/min	ISO 1133
Bulk Density	>0.50	g/cm <sup>3</sup>	ISO 60
<b>Mechanical properties</b>			
Tensile Modulus of elasticity	1100	MPa	ISO527-1
Tensile stress at Yield	27	MPa	ISO 527-1
Tensile strain at Yield	8	%	ISO 527-1
Notched Tensile impact strength(-30oC)	135	kJ/m <sup>2</sup>	ISO 8256/1A
<b>Hardness</b>			
Ball indentation Hardness	49	MPa	ISO 2039-1
ESCR	90	h	Basell
Additive :Antioxidant –Heat stabilizer			

### Notes

Typical values; not to be construed as specifications

### Application

**HCH 5510** is suitable for jerry cans, and drums. Extrusion Blow Moulding (Jerry Cans)

### General information

HCH5510 has been manufactured using Basell Lupotech G licensed technology.

### Processing

Recommended melt temperatures: 180 - 220°C

### **Packaging**

Supplied in pellet form and can be packaged in 25kg bags, 1 ton semi bulk or 17 ton bulk.

### **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 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 0C. 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 or thermal 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.

