



ASPC

Process OptimizationDoc
Name:

Product Data sheet - High Density polyethylene

HCH 5510

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Doc
No.

TEC-PRO-PDS-012

Rev: 6

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Properties	Value	unit	Test method
Physical Properties			
Density (23 °C)	955	kg/m ³	ISO 1183
MFI (190 °C /21.6Kg)	10	dg/min	ISO 1133
Bulk Density	> 0.50	g/cm ³	ISO 60
Mechanical properties			
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(-30°C)	135	kJ/m ²	ISO 8256/1A
Hardness			
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 5020 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

Note: *this information is based on our current knowledge and experience .in view of many factors that may affect processing and application, this data does not relive processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*

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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 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.

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