Product Data sheet -High Density polyethylene

HCH 5020

Typical Data

Properties	Value	unit	Test method
Physical Properties			
Density (23 °C)	950	kg/m3	ISO 1183
MFI (190 °C /21.6Kg)	22	dg/min	ISO 1133
MFI (190 °C /2.16Kg)	0.3	dg/min	ISO 1133
Bulk Density	>0.5	g/cm3	ISO 1133
Mechanical properties			
Tensile Modulus of elasticity	1000	MPa	ISO527-1
Tensile stress at Yield	25	MPa	ISO 527-1
Tensile strain at Yield	9	%	ISO 527-1
Notched Tensile impact strength(-30 °C)	110	kJ/m2	ISO 8256/1A
Thermal Properties			
HDT,(0.45 MPa)	75	°C	ISO 75B-1
HDT,(1.80 MPa)	43	°C	ISO 75A-1
Melting Point	131	°C	ISO 11357
Vicat Temperature (B50,50 °C/h , 50 N)	78	°C	ISO 306
Hardness			
Ball indentation Hardness (H 132/30)	45	MPa	ISO 2039-1
FNCT (3.5MPa, 80°C, 2% Igepal BC/9)	6	h	ISO/CD 16770
ESCR(bottle test)	150	h	Basell
Additive : Antioxidant-Heat stabilizer			

Notes:

Typical values; not to be construed as specifications

Application

HCH 5020 is suitable for Extrusion Blow Moulding (Small blow mouldings, Engineering parts), Packaging of consumer goods, Packaging of dangerous goods, Packaging of surfactants

General information

HCH5020 has been manufactured using Basell Lupotech G licensed technology.

Processing

Recommended melt temperatures: 170 - 200°C

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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 from) 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.

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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