

LOMOTEK 1050 White 05 LDPE



LOMOTEK POLYMERS

POWDER COATING GRADE

Lomotek 1050 White 05 LPDE: Is an LDPE Powder Coating Grade supplied in powder form only.

Characteristics	Application
High Flexibility	Fluidized Bed Coating
Good Toughness	Refrigerator shelves and trays
High Gloss	Wire Coated Products
Excellent Surface finish	Domestic wares
Available in many colours	Lids and closures

Properties	Value	Unit	Test method
MFI (190°C / 2.16 Kg)	20.5	g/100min	ASTM D 1238
Density	0,919	g/cm ³	ASTM D 1505
Tensile strength at yield	10	MPa	ASTM D638
Tensile strength at break	6	MPa	ASTM D638
Elongation at break	80	%	ASTM D638
Young's modulus	205	MPa	ASTM D638
Flexural Modulus	336	Mpa	ASTM D 790
ESCR (F 50)	0.01	hr	ASTM D 1693
Hardness (Shore D)	51	Shore D	ASTM D 2240
Vicate Softening Temp.	89	°C	ASTM D 1525

The properties shown are typical values

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Lomotek LDPE Material Safety Data Sheet

Processing

Processing temperatures will depend on the type of process used. Typical melting temperature is 180C - 240C.

Presentation

Supplied in powder form packed in 25kg bags.

Food Packaging

This material complies with F&DA regulation 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. This material may be used in all food contact applications (except holding food during cooking). However, when manufacturing coloured products, it is recommended to use compounded material to ensure pigment is chemically encapsulated within the LDPE material to prevent harmful chemicals found in pigments to cause any harm..

Conveying

Conveying equipment should be designed to prevent accumulation of dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend 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.
4. We further recommend good housekeeping be practised throughout the facility.

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage.

Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours.

Combustibility

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

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 relieve 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.

