PRODUCT DATA SHEET

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Low Density Polyethylene

LM2065

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Melt Index: 6.5 g/10min

Density: 0.920 g/cm^3

Features
- Tubular Resin
- Good flexibility
- Good transparency

Applications
- Injection moulded caps and closures
- Base polymer for masterbatch

Additives
- None

Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt Index (190°C/2.16kg)	6.5 g/10min	6.5 g/10min	ASTM D1238
	Nominal density	0.920 g/cm^3	0.920 g/cm^3	ASTM D1505
Product Properties	Tensile strength at yield	11 MPa	1595 psi	ASTM D638[1)]
	Tensile strength at break	11 MPa	1595 psi	ASTM D638[1)]
	Elongation at break	530 %	530 %	ASTM D638[1)]
	Flexural modulus	250 MPa	36250 psi	ASTM D790
	ESCR F_{50}	0.1 hr	0.1 hr	ASTM D1693[2)]
	Shore D Hardness	52	52	ASTM D2240
	Vicat softening temperature	94 °C	94 °C	ASTM D1525

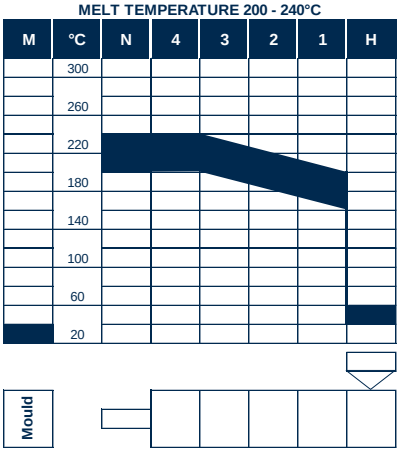
1) Crosshead speed 500mm/min
2) 100% Igepal CO630

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Injection moulding

MELT TEMPERATURE 200 - 240°C



Processing

Processing temperatures for LM2065 will depend on the type of machine and the mould design. Frozen in strain should be avoided as it affects ESCR adversely. Typical melt temperatures are 200°C – 240°C.

Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours. Please consult the material safety data sheet (SDS) for more detailed information.

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage. If stored in cool (<25°C), dry area with low ambient light levels, polyolefin resins are expected to maintain their original material and processing properties for at least 12 months.

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 water mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.

Conveying

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

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

It is further recommended that good housekeeping is practiced throughout the facility.

Regulatory & Legal Compliance

This material complies with FDA regulation 21 CFR 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Refer to applicable food contact compliance statement which is available on request.

This material is not medically approved and should therefore not be used in any such application.

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