LDPE - Preliminary Product Data Sheet

sasol
reaching new frontiers

LT388

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Sasol Polymers
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Injection / blow moulding

Melt Index: 2.0 **Density:** 0.922

Features	Additives	Applications
Tubular Resin Flexible Moderate ESCR	Antioxidant	Flexible fittings Dispensing containers Small containers

Performance properties - LT388

Test	Value	Unit	Test method	Based on
MFI (190°C/2.16kg)	2.0	g/10min	PTM 058	ASTM D1238
Nominal density	0.922	g/cm^3	PTM 002	ASTM D1505
Tensile strength at yield	11	MPa	PTM 006	ASTM D638[1)]
Tensile strength at break	12	MPa	PTM 006	ASTM D638[1)]
Elongation at break	378	%	PTM 006	ASTM D638[1)]
Flexural Modulus	357	MPa	PTM 008	ASTM D790
Young's Modulus	135	MPa	PTM 006	ASTM D638[1)]
ESCR F50	0.2	hr	PTM 001	ASTM D1693[2)]
Shore D hardness	53	ShoreD	PTM 079	ASTM D2240
Vicat softening temperature	96	°C	PTM 080	ASTM D1525

[1)] 500mm/min jaw separation
[2)] 100% Igepal C0630

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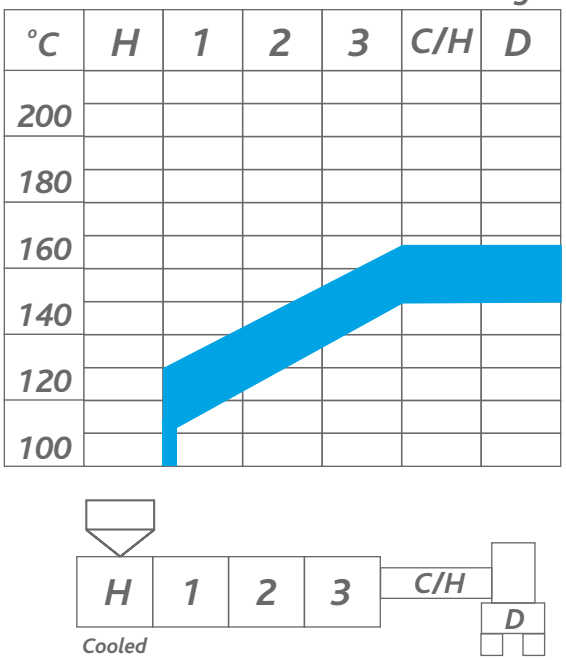
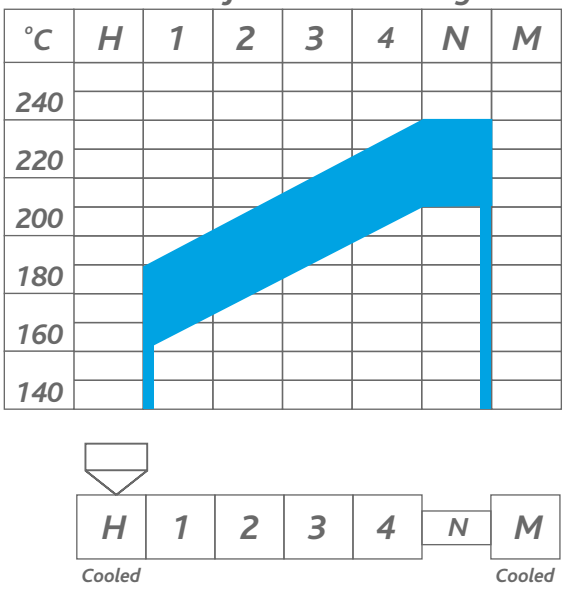
Processing

Processing conditions will depend on the type of machine and the mould design. Typical melt temperatures are 240°C - 260°C for injection moulding, and 150°C - 160°C for blow moulding and extrusion.

LT388 Extrusion & Blow Moulding



LT388 Injection Moulding



Presentation

Supplied in pellet form 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. Accordingly, this material may be used in all food contact applications (except holding foods during cooking)

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polyethylene resins. These 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 recommend that 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 protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours.