

Lotrène®FE8000

LOWDENSITYPOLYETHYLENE

DESCRIPTION

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Lotrène®FE8000isanadditivefreegrademainlyrecommendedforhelight andmediumdutyfilmapplicationwithgoodopticalpropertiesandmedium rigidity.

PROPERTIES

Lotrène®FE8000producesfilmsthatareverystrong,sufficientlyrigidfor automaticpackagingmachines,suitableforshrinkwrappingandhavegood opticalproperties.

FE8000

POLYMERPROPERTIES	VALUE	UNIT	TESTMETHOD
MeltFlowIndex	0.80	g/10min.ASTMD-1238	
Density@23°C	0.923	g/cm³	ASTMD-1505
CrystallineMeltingPoint	112	°C	ASTME-794
VicatSofteningPoint	95	°C	ASTMD-1525

FILMPROPERTIES	VALUE	UNIT	TESTMETHOD
TensileStrength@YieldMD/TD16/12		MPa	ASTMD-882
TensileStrength@BreakMD/TD24/22		MPa	ASTMD-882
Elongation@BreakMD/TD	500/600	%	ASTMD-882
ImpactStrength,F50	150	G	ASTMD-1709
CoefficientofFriction	0.45	-	ASTMD-1894
Haze	8.5	%	ASTMD-1003
Gloss(@45°)	60	GU	ASTMD-2457
Clarity	45	%	ASTMD-1746

(Theabovepropertiesaremeasuredonablownfilmof50µ,@2.5BUR)



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Note: The values given in this technical data sheet are the result of tests carried out in accordance with standard test procedures. They are given as an indication to enable customers to make the best use of our products but must be considered as average values provided without implying any undertaking on our part.

PROCESSING

Lotrène® FE8000 can be easily processed on all types of extruders designed for polyethylene and over a wide range of extrusion conditions.

The melt temperature is suggested to be in the range of 160-180°C.

The best properties of the blown film are achieved at blow up ratios between 2.5:1 and 3.5:1.

To avoid blocking and shrinkage on the reel, the temperature at the nip rolls and take-off should be kept as close as possible to the ambient temperature.

The recommended thickness range is from 30µm to 200µm.

APPLICATIONS

- Shrink wrap film for light and medium duties
- Shopping bags
- Lamination film

SAFETY AND STORAGE

Under normal conditions Lotrène® FE8000 does not present a toxic hazard through skin contact or inhalation. During processing, contact with molten polymer and inhalation of volatilized fumes should be avoided.

Lotrène® FE8000 complies with food grade regulations FDA, 21 CFR chapter 177-1520 'Olefin Polymers'. Items made from this grade do not transmit taste or odor to the material in contact with.

Lotrène® FE8000 is inflammable and combustible (category 3) according to ISO R1210.

Lotrène® FE8000 is supplied in plastic bags of 25kg (net weight) each. The bags are stacked and shrink wrapped on pallets of 1500kg each (net weight). The product is forwarded either by trucks or in 20-foot sea containers.

Lotrène® FE8000 should not be stored for more than three months nor be exposed to direct sunlight and/or heating during storage since this may adversely affect the properties of the product.

