LL6608LJ

Product Technical Information

LLDPE film products

Applications

LL6608LJ has been developed for the production of mailing film, carrier, bread and produce bags.

Benefits and Features

LL6608LJ is a linear low density polyethylene copolymer containing hexene-1 as the co-monomer. It offers the following properties:

- Optimum balance between stiffness and film strength
- Good optical properties
- Good bubble stability
- Excellent sealability and hot-tack strength

LL6608LJ offers high slip film with easy opening properties when used pure in the thickness range 30 to 70 µm. Addition of other polymers, masterbatch and pigments, or the use of other thicknesses may alter film slip and antiblock performance.

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.
We recommend that you consult your Innovene technical representative for further advice on the use of LL6608LJ.

Properties		Test Method	Value	Units
Physical				
Melt flow rate				
Condition 4		ISO 1133	0.9	g/10 min
Conventional Density		ISO 1183 Method D	929	kg/m³
Vicat softening temperature		ISO 306 Method A	116	°C
Slip (erucamide)		INEOS method	1200	ppm
Antiblock (silica)		INEOS method	600	ppm
Additives: antioxidants				
Film*				
Dart drop impact		ASTM D1709 Method A	170	g
Tensile stress at yield	MD/TD	ISO 0527	14/16	MPa
Tensile stress at break	MD/TD	ISO 0527	50/35	MPa
Elongation at break	MD/TD	ISO 1184	750/900	%
1% Secant modulus		ISO 1184	290	MPa
Elmendorf tear strength	MD/TD	ASTM D1922	110/650	g/25 µm

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Coefficient of friction	ASTM D1894	< 0.2	-
Haze	ASTM D1003	12	%
Gloss (45°)	ASTM D2457	57	‰

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- Data should not be used for specification works

* 38 µm film, 2:1 blow-up ratio, 230°C melt temperature - MD = machine direction TD = transverse direction

Extrusion conditions

LL6608LJ in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used. LL6608LJ rich film formulations are often processed on modified LDPE machinery, but for the best performance the use of purposely designed LLDPE machinery is recommended. Particular attention should be paid to maintaining a low melt temperature, and an efficient bubble cooling system should be employed. The recommended melt temperature range is 190 - 230°C.

Storage

LL6608LJ should be stored in a dry and dust free environment at temperatures below 50°C. Exposure to direct sunlight should be avoided, as this may lead to product deterioration.

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