

LL6608AF

Product Technical Information

LLDPE film products

Applications

LL6608AF has been developed for lean and rich blend blown film applications, such as rigid layers in co-extrusion, carrier bags, refuse sacks and liners. This grade is also recommended for artificial grass applications

Benefits and Features

LL6608AF 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

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

We recommend that you consult your INEOS O&P Europe technical representative for further advice on the use of LL6608AF.

| Properties | | Test Method | Value | Units |
|-----------------------------|-------|----------------------|---------|-------------------|
| Physical | | | | |
| Melt flow rate | | ISO 1133 Condition 4 | 0.9 | g/10 min |
| Density | | ISO 1183 Method D | 928 | kg/m ³ |
| Vicat softening temperature | | ISO 306 Method A | 116 | °C |
| 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 |
| Haze | | ASTM D1003 | 11 | % |
| Gloss (45°) | | ASTM D2457 | 56 | % |

- 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



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Extrusion conditions

LL6608AF in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used. LL6608AF 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

LL6608AF 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.

Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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