# **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 Additives: antioxidants		ISO 306 Method A	116	°C
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	0/0
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	<b>‰</b>

<sup>-</sup> Data should not be used for specification works

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<sup>\* 38</sup> 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 <a href="mailto:psnohreg@ineos.com">psnohreg@ineos.com</a>. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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