M24N430

Product Technical Information

LDPE: Ethylene-MethAcrylic-Acid copolymer (EMAA) for extrusion coating

Applications

M24N430 is a speciality extrusion coating resin with improved adhesion characteristics. With this grade higher line speeds or lower coating weights are possible compared to standard LDPE grades. Main extrusion coating application fields include aluminium foil and metallised film both for industrial use, food and flexible packaging.

Benefits and Features

M24N430 is an additive free ethylene-methacrylic acid copolymer (EMMA) with a medium MAA content. Its special polymer structure gives the following properties:

- Adhesive properties superior to standard LDPE and to low acid copolymer extrusion coating grades especially with aluminium foil and metallised film at high line speeds or low coating weights
- Good processability in mono- and coextrusion with comparable neck in and draw down to LDPE grades
- Low fumes during extrusion
- Good organoleptical properties
- Good heat sealing properties enhanced by the presence of comonomer
- High purity and very low gel level

We recommend that you consult your INEOS technical representative for further advice on the use of M24N430.

Properties	Test Method	Value	Units
Physical			
Melt flow rate	ISO 1133 Condition D	7.5	g/10 min
Conventional density	ISO 1183 Method D (conditioning ISO 1872/1)	924**	kg/m^3
Methacrylic acid content	INEOS Method	3.8	%
Vicat softening temperature*	ISO 306 Method A	90	°C
DSC melting temperature (10°C/min)	INEOS Method	105	°C

- Data should not be used for specification work *Measurements made on compression moulded plaques

**equivalent density

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Extrusion conditions

M24N430 can be processed on commercial extrusion coating equipments over the melt temperature range 280-325°C. Coating weights as low as 7 g/m^2 can be obtained at extrusion rates normally used for common substrates. Identical extrusion and processing parameters should be used as for conventional LDPE of identical melt flow rate and density.
When extruding M24N430 precautions should be taken to prevent equipment corrosion. The resin should not be left standing in the extruder for extended periods. After extrusion of M24N430, the extruder should be purged with standard LDPE resin.

Storage

M24N430 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.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Material Safety Data Sheet (MSDS) that may be obtained from the website www.ineospolyolefins.com . Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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