



# M29N430

## Product Technical Information

Ethylene-MethAcrylic-Acid-Copolymer (EMAA) for extrusion coating.

## Benefits & Features

**M29N430** is an additive free ethylene-methacrylic-acid-copolymer (EMAA) with 9,3% MAA content. Its special polymer structure gives the following properties:

- Improved adhesion properties to polar substrates, especially with aluminium foil and metallised film and robust adhesion resistance for demanding filling goods
- Excellent processability in mono- and coextrusion at high line speed and/or low coating weights
- Exhibits good sealing properties enhanced by the presence of the comonomer

## Applications

**M29N430** is a specialty extrusion coating resin with improved adhesion characteristics. Main application fields include aluminium foil and metallized film coating both for industrial use, food and flexible packaging.

We recommend that you consult your INEOS technical representative for further advice on the use of **M29N430**.

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190 °C/2.16Kg	ISO 1133-1	8.0	g/10 min
<b>Co-monomer</b>				
Methacrylic Acid Content		INEOS Test Method	9.3	%
<b>Mechanical*</b>				
Shore hardness D		ISO 868	48	-
Tensile Modulus	23 °C, 1 mm/min	ISO 527-2	162	MPa
Tensile strength at Break	23 °C, 50 mm/min	ISO 527-2	21.4	MPa
Tensile strain at Break	23 °C, 50 mm/min	ISO 527-2	515	%
Flexural Modulus		ISO 178	150	MPa
Izod Impact Strength		ISO 180	55.9	kJ/m <sup>2</sup>
<b>Thermal</b>				
DSC Melting Temperature	10 °C/min	ISO 11357-3	100	°C
Vicat Softening Temperature	10 N	ISO 306/A50	77	°C

**Data should not be used for specification work**

\* Measurements made on compression moulded plaques

## Processing guidelines

**M29N430** can be processed on commercial extrusion coating equipment over the melt temperature range from 260 to 290°C. Low coating weights 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 MFR.

When extruding **M29N430**, precautions should be taken to prevent equipment corrosion.

The extrusion equipment has to be designed for acid copolymers to avoid corrosion.



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The resin should not be left standing in the extruder for extended periods.  
After extrusion of **M29N430** the extruder should be purged with LDPE.

## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C.  
Exposure to direct sunlight should be avoided as this may lead to product deterioration.  
It is advised to process the product within maximum one year after delivery.