

# M32P430

## Technical Data-Sheet

### Product Technical Information

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

### Benefits & Features

**M32P430** is an additive free ethylene-methacrylic-acid-copolymer (EMAA) with 12% MAA content. Its special polymer structure gives the following properties:

- Improved adhesion properties to polar substrates such as aluminium foil and metallised film and improved adhesion resistance to demanding filling goods
- Excellent processability in mono- and coextrusion at low coating weights and/or high line speeds
- Exhibits very good sealing properties enhanced by the presence of the comonomer

### Applications

**M32P430** 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 **M32P430**.

| Properties  | Conditions       | Test Methods      | Values | Units             |
|---|------------------|-------------------|--------|-------------------|
| <b>Rheological</b>                                    |                  |                   |        |                   |
| Melt Flow Rate  | 190°C/2.16Kg     | ISO 1133-1        | 10     | g/10 min          |
| <b>Co-monomer</b>                                     |                  |                   |        |                   |
| Methacrylic Acid Content                              |                  | INEOS Test Method | 12     | %                 |
| <b>Mechanical*</b>                                    |                  |                   |        |                   |
| Shore hardness D                                      |                  | ISO 868           | 49     | -                 |
| Tensile Modulus                                       | 23 °C, 1 mm/min  | ISO 527-2         | 152    | MPa               |
| Tensile strength at Break                             | 23 °C, 50 mm/min | ISO 527-2         | 13.3   | MPa               |
| Tensile strain at Break                               | 23 °C, 50 mm/min | ISO 527-2         | 491    | %                 |
| Flexural Modulus                                      |                  | ISO 178           | 153    | MPa               |
| Izod Impact Strength                                  |                  | ISO 180           | 59     | kJ/m <sup>2</sup> |
| <b>Thermal</b>  |                  |                   |        |                   |
| DSC Melting Temperature                               | 10 °C/min        | ISO 11357-3       | 98     | °C                |
| <b>Data should not be used for specification work</b> |                  |                   |        |                   |

\* Measurements made on compression moulded plaques

### Processing guidelines

**M32P430** 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 **M32P430**, precautions should be taken to prevent equipment corrosion.



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The extrusion equipment has to be designed for acid copolymers to avoid corrosion.  
The resin should not be left standing in the extruder for extended periods.  
After extrusion of **M32P430** 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.