

INEOS EMAA M21N430B

Ethylene Methacrylic Acid
INEOS Olefins & Polymers Europe

Message:

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

Benefits & Features

M21N430B is an additive free ethylene-methacrylic-acid-copolymer (EMAA) with a low MAA content. Its special polymer structure gives the following properties:

Improved adhesion properties to standard LDPE/mLLDPE or other polar substrates, 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

Exhibits good sealing properties enhanced by the presence of the comonomer

Good organoleptical properties

Low fumes during processing, high purity and a low gel level

Applications

M21N430B is a speciality 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.

General Information			
Features	High purity		
	Irritant gas low to no		
	Low speed solidification crystal point		
	Copolymer		
	Workability, good		
	Good sensory characteristics		
	Good heat sealability		
	Good adhesion		
	No additive		
Uses	Foil Coatings		
	Packaging		
	Industrial application		
	Food packaging		
	Coating application		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Methacrylic Acid Content	1.2	%	Internal method

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	48		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, molding	9.00	MPa	ISO 527-2
Fracture, molding	10.5	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	500	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/A50
Melting Temperature (DSC) ¹	108	°C	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	260 - 325	°C	
NOTE			
1.	10°C/min		

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