INEOS LDPE M23N430

Ethylene Methacrylic Acid

INEOS Olefins & Polymers Europe

Message:

LDPE extrusion coating product

Applications:

M23N430 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 and to M21N430. Main extrusion coating application fields include aluminium foil and metallised film both for industrial use, food and flexible packaging.

Benefits and Features:

M23N430 is an additive free ethylene-methylacrylic 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

General Information					
Features	Additive Free				
	Fast Molding Cycle				
	Good Adhesion				
	Good Heat Seal				
	Good Organoleptic Properties				
	Good Processability				
	High Purity Low Gel				
	Low to No Fumes				
Uses	Foil Coatings				
	Food Packaging				
	Packaging				
	Thin Coatings				
RoHS Compliance	Contact Manufacturer				
Processing Method	Coextrusion				
	Extrusion Coating				
Physical	Nominal Value	Unit	Test Method		
Density ¹	0.923	g/cm³	ISO 1183/D		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	7.5	g/10 min	ISO 1133		
Methacrylic Acid Content	2.5	%	Internal Method		

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression			
Molded)	48		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	9.50	MPa	
Break, Compression Molded	10.5	MPa	
Tensile Strain (Break, Compression			
Molded)	500	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ISO 306/A
Melting Temperature	108	°C	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	280 to 325	°C	
NOTE			
	Conditioned according to ISO		
1.	1872/1		

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