INEOS LDPE M21G864

Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

M21G864 are particularly suitable for mono and co-extrusion applications such as deep freeze, form fill seal film in general and thin bags. In blends and co-extrusions, they can be used to boost the impact strength of LLDPE, LDPE and recycled polyethylene.
M21G864 are ionomers, produced by neutralisation of an ethylene - methacrylic acid copolymer. M21G864 contains slip and antiblock. They offer the following properties:
Very high impact strength at ambient and low temperatures
Exceptional drawdown
M21G864 offers high slip film with easy opening properties when used pure in the thickness range 35-80 µm, but slip development takes longer than for standard homopolymer LDPE.
If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.
We recommend that you consult your INEOS technical representative for further advice on the use of M21G864.

General Information	
Additive	Antiblock (1100 ppm) 2 Antioxidant Slip (1250 ppm)
Features	Antiblocking Antioxidant Copolymer Good Drawdown Low Temperature Impact Resistance Slip Ultra High Impact Resistance
Uses	Bags Blending Film
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Blown Film Coextrusion Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/0.325 kg)	0.95	g/10 min	ISO 1133
Methacrylic Acid Content	1.0	%	Internal Method

Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	< 0.20		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 1184
1% Secant, MD : 50 µm, Blown Film	165	MPa	
1% Secant, TD : 50 µm, Blown Film	175	MPa	
Tensile Stress			ISO 1184
MD : Yield, 50 µm, Blown Film	10.0	MPa	
TD : Yield, 50 µm, Blown Film	11.0	MPa	
MD : 50 µm, Blown Film	22.0	MPa	
TD : 50 µm, Blown Film	21.0	MPa	
Tensile Elongation			ISO 1184
MD : Break, 50 µm, Blown Film	350	%	
TD : Break, 50 µm, Blown Film	500	%	
Dart Drop Impact (50 µm, Blown Film)	500	g	ASTM D1709A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	97.0	°C	ISO 306/A50
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	50		ASTM D2457
Haze (50.0 µm, Blown Film)	10	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 to 200	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China