

Lotader® 4503

Ethylene Acrylic Acid Copolymer

Arkema

Message:

LOTADER® 4503 is a random terpolymer of ethylene, acrylic ester and maleic anhydride, polymerized by high-pressure autoclave process.

Applications

LOTADER® 4503 is a versatile adhesive for extrusion lamination, designed as a ready for use resin to be used pure.

LOTADER® 4503 gives excellent adhesion to plain, primer-less OPET films as well as to other plastic films like OPP, CPP, OPA and reverse-printed films. It also bonds to easier substrates like PE films, aluminium foil, metalized plastics, paper and board.

Typical uses are:

Adhesive for extrusion lamination of polar and non-polar films and foils, particularly for OPET and aluminium.

Adhesive for coextrusion coating of LDPE / Tie / EVOH or PA / tie onto OPET or other films.

General Information			
Features	Good Adhesion		
	Good Drawdown		
	Good Thermal Stability		
	High Melt Stability		
	Low Neck-In		
	Terpolymer		
Uses	Adhesives		
	Coating Applications		
	Laminates		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion Coating		
	Laminating		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Methyl Acrylate Content	20.0	wt%	
Maleic Anhydride Content	0.3	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	25		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	9.00	MPa	ASTM D638, ISO 527-2

Tensile Elongation (Break, Compression Molded)	750	%	ASTM D638, ISO 527-2
Flexural Modulus (Compression Molded)	20.0	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	45.0	°C	ISO 306/A, ASTM D1525 ¹
Melting Temperature	80.0	°C	ISO 11357-3
NOTE			

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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

