

Arkema Group LOTADER® 4503 Terpolymer Ethylene - Acrylic Ester - Maleic Anhydride

Category : Polymer , Adhesive , Thermoplastic , EMAAA Terpolymer

Material Notes:

LOTADER 4503 is a random terpolymer of Ethylene, Acrylic Ester and Maleic Anhydride, polymerized by high-pressure autoclave process. 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, primerless OPET films as well as to other plastic films like OPP, CPP and OPA. It also bonds to easier substrates like PE films, alu foil, metallized plastics, paper and board. Typical uses are: Adhesive for extrusion lamination of polar and non polar films and foils, particularly for laminates involving OPET and aluminium. Adhesive for coextrusion coating of LDPE / Tie / EVOH or PA / tie onto OPET or other films. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-LOTADER-4503-Terpolymer-Ethylene-Acrylic-Ester-Maleic-Anhydride.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc @Temperature 23.0 °C	0.0340 lb/in ³ @Temperature 73.4 °F	ISO 1183
Methyl Acrylate Content	20 %	20 %	IRTF (internal)
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	25	25	ASTM D2240
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638
Flexural Modulus	0.0200 GPa	2.90 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	80.0 °C	176 °F	DSC
Vicat Softening Point	45.0 °C @Load 0.999 kg	113 °F @Load 2.20 lb	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	<= 230 °C	<= 446 °F	for coextrusion with EVOH
	270 - 330 °C	518 - 626 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Maleic Anhydride Content (%)		0.3	IRTF (internal)

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