

Arkema Group LOTADER® 4603 Terpolymer Ethylene - Acrylic Ester - Maleic Anhydride

Category : Polymer , Adhesive , Thermoplastic , EMAAA Terpolymer

Material Notes:

LOTADER 4603 is a random terpolymer of Ethylene, Acrylic Ester and Maleic Anhydride, polymerized by high pressure process in autoclave reactor. LOTADER 4603 is a multipurpose extrusion adhesive used to bond PET homo or copolymers to EVOH and PE in flexible and rigid applications. LOTADER 4603 can also be used as extrusion coating/lamination adhesive for a wide variety of difficult substrates like oriented plastic films (OPET, OPA, OPP), reverse printed films, PVDC coated films, etc, in combination with easier substrates like aluminium foil, metallized films, PE films, paper and board. LOTADER 4603 is designed to be used pure in both cases. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-LOTADER-4603-Terpolymer-Ethylene-Acrylic-Ester-Maleic-Anhydride.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc @Temperature 23.0 °C	0.0343 lb/in³ @Temperature 73.4 °F	ISO 1183
Methyl Acrylate Content	26 %	26 %	IRTF (internal)
Melt Index of Compound	7.0 - 9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 - 9.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	ASTM D2240
Tensile Strength at Break	6.00 MPa	870 psi	ASTM D638
Elongation at Break	850 %	850 %	ASTM D638
Flexural Modulus	0.00900 GPa	1.31 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	62.0 °C	144 °F	DSC
Vicat Softening Point	62.0 °C @Load 0.999 kg	144 °F @Load 2.20 lb	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	<= 235 °C	<= 455 °F	for thermally sensitive resins like EVOH or EVA

Processing Properties	<= 325 °C Metric	<= 617 °F English	Comments
Descriptive Properties	Value		Comments
Maleic Anhydride Content (%)	0.3		IRTF (internal)

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