

Westlake EMAC® SP 1257 Ethylene-Methyl Acrylate Copolymer (discontinued **)

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate , Ethylene-Methyl Acrylate Copolymer, Film Grade

Material Notes:

20% Methyl Acrylate Content. Characteristics: FDA Clearance for Packaging of Most Foods, Including Aseptic Packaging; Less Crystalline and Softer than Polyethylene; Excellent Heat Stability Allows Processing Temperature Range of 280-600°F; Non-corrosive at all Temperature Ranges; No FDA Thickness Limitations; Contains a High Level of Slip and Antiblock Additives Applications: Film: Excellent Heat Seal Response at Low Temperatures, Making it a Good Candidate for the Heat Seal Layer in Various Coextrusion Constructions; Coatings & Laminations: Higher Neck-In but Similar Drawdown vs. Polyethylene, Excellent Heat Seal Response at Low Seal Temperatures, Processing Temperature Range - 580-600°F, Can be Drawn as Low as 4 lbs. per ream, Gas Barrier and Grease Resistance are Slightly Less than those of LDPE; Coextrusion: Excellent Coextrusion Tie Layer for LDPE, LLDPE, HDPE, PP, EVA, EEA, Ionomer, PET, PC, PVDC and rigid PVC; Injection Molding: Processing Temperature 360-600°F, Less Mold Shrinkage than LDPE, Produces Very Tough, Stress Crack Resistant Parts Eastman Chemical Company sold its polyethylene business to Westlake Chemical Corporation in Dec. 2006. This grade no longer appears in the Westlake product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-EMAC-SP-1257-Ethylene-Methyl-Acrylate-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ASTM D1505
ESCR 10% Igepal®	>= 360 hour @Temperature 50.0 °C	>= 360 hour @Temperature 122 °F	F₅₀; ASTM D1693
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	Cond. E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Hardness, Shore D	31	31	ASTM D2240
Tensile Strength, Ultimate	11.4 MPa	1650 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	82.0 °C	180 °F	by DSC
Vicat Softening Point	58.0 °C	136 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	154 °C	309 °F	Blown Film
	190 °C	374 °F	Molding
	315 °C	599 °F	Extrusion Coating

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