

EMAC+® SP1358

Ethylene Methyl Acrylate Copolymer

Westlake Chemical Corporation

Message:

EMAC resins adhere to and are compatible with a wide range of materials including paper, polyolefins, oriented polyolefins, polyesters, ionomers, PVdC, unplasticized PVC and other polar polymers. For use as heat seal layer, adhesive layer, or modifier for cost/performance enhancement. They are soft, pliable and tough at ambient and freezing temperatures and exhibit excellent ESCR. These polymers exhibit high solids fillability and compatibility with a wide range of polymers. This facilitates their uses as bases for all-purpose concentrates for addition to a wide spectrum of polymers. EMAC resins process like LDPE. EMAC+ Specialty Copolymers are produced under patented technology: US Patent 5804675.

General Information	
Features	Good Adhesion
	Good Flexibility
	Good Heat Seal
	Good Toughness
	High ESCR (Stress Crack Resist.)
	Soft
Uses	Film
	Tie-Layer

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ASTM D1238
Methyl Acrylate Content	21.5	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	32		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	10.0	MPa	ASTM D638
Tensile Elongation ² (Break)	810	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD	39.0	MPa	
1% Secant, TD	28.0	MPa	
Tensile Strength			ASTM D882
MD : Break	17.0	MPa	
TD : Break	14.0	MPa	
Tensile Elongation			ASTM D882
MD : Break	530	%	
TD : Break	760	%	
Dart Drop Impact	410	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD	69	g	
TD	180	g	
Seal Initiation Temperature	67.0	°C	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -73.0	°C	ASTM D746
Vicat Softening Temperature	45.0	°C	ASTM D1525
Peak Melting Temperature	95.0	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	43		ASTM D2457
Haze	15	%	ASTM D1003
NOTE			
1.	Type IV, 500 mm/min		
2.	Type IV, 500 mm/min		

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