EMAC® SP2252

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 use as bases for all-purpose concentrates for addition to a wide spectrum of polymers. They process like LDPE.

General Information			
Features	Copolymer Good Toughness High ESCR (Stress Crack Resist.) Low Temperature Toughness Soft		
Uses	Film Medical/Healthcare Applications Tie-Layer Tubing		
Agency Ratings	FDA 21 CFR 177.1340		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.946	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Methyl Acrylate Content	20.5	wt%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	35		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break)	14.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	790	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus			ASTM D882
1% Secant, MD : 38 µm, Blown Film	52.0	MPa	
1% Secant, TD : 38 µm, Blown Film	49.0	MPa	
Tensile Strength			ASTM D882
MD : Break, 38 µm,Blown Film	23.0	MPa	
TD : Break, 38 µm,Blown Film	17.0	MPa	

Tensile Elongation			ASTM D882
MD : Break, 38 µm,Blown Film	420	%	
TD : Break, 38 µm,Blown Film	680	%	
Dart Drop Impact (38 µm, Blown Film)	360	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm, Blown Film	46	g	
TD : 38 µm, Blown Film	290	g	
Seal Initiation Temperature	67.0	°C	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -73.0	°C	ASTM D746
Vicat Softening Temperature	54.0	°C	ASTM D1525
Peak Melting Temperature	79.0	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 µm, Blown Film)	22		ASTM D2457
Haze (38.1 µm, Blown Film)	30	%	ASTM D1003
NOTE			
1.	Type IV, 500 mm/min		
2.	Type IV, 500 mm/min		

Recommended distributors for this material

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