



Application/Uses

- Films
- Disposable Gloves
- Wound Care

Product Description

EMAC resins adhere to and are compatible with a wide range of materials including paper, polyolefins, oriented polyolefins, polyesters, ionomers, PVC, 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.

Typical Physical Properties

<u>Property^a</u>	<u>Test^b Method</u>	<u>Typical Value, Units^c</u>
Melt Index (Condition 190°C/2.16 kg)	D 1238	2.4 g/10 min
Density	D 1505	940 kg/m ³ (0.940 g/cm ³)
Vicat Softening Temperature	D 1525	45°C (113°F)
Methyl Acrylate Content		21.5%
Melting Point by DSC	D 3418	95°C (203°F)
Brittleness Temperature	D 746	<-73°C (<-99°F)
Durometer Hardness Shore D Scale	D 2240	32
Tensile Stress @ Break 500 mm/min (20 in./min)	D 638 Type IV Specimen	10 MPa (1484 psi)
Elongation @ Break 500 mm/min (20 in./min)	D 638 Type IV Specimen	805%
Haze	D 1003	15%
Gloss @ 45°	D 2457	43
Dart Impact	D 1709A	405 g
Seal Initiation Temperature	Westlake	67°C (152°F)
Elmendorf Tear Resistance	M.D. D 1922	69 gf
	T.D. D 1922	178 gf
Tensile Strength @ Break	M.D. D 822	17 MPa (2415 psi)
	T.D. D 822	14 MPa (2020 psi)
Elongation @ Break	M.D. D 822	525%
	T.D. D 822	760%
Tensile Modulus, 1% Secant	M.D. D 822	39 MPa (5600 psi)
	T.D. D 822	28 MPa (4100 psi)

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.

Applications

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. They process like LDPE.

Comments

Properties reported here are based on limited testing. Westlake makes no representation that the material in any particular shipment will conform exactly to the values given.

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