

Westlake EMAC® SP2242 Specialty Copolymer (discontinued **)

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

Material Notes:

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. Applications/Uses Films 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-SP2242-Specialty-Copolymer-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-------------------------|--------------|---------------------------|------------|
| Base Resin Density | 0.939 g/cc | 0.0339 lb/in ³ | ASTM D1505 |
| Methyl Acrylate Content | 17.5 % | 17.5 % | |
| Thickness | 38.1 microns | 1.50 mil | ASTM D374 |
| Base Resin Melt Index | 3.5 g/10 min | 3.5 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|------------|----------------------|
| Hardness, Shore D | 35 | 35 | ASTM D2240 |
| Tensile Strength at Break | 11.0 MPa | 1600 psi | ASTM D638 |
| Film Elongation at Break, MD | 365 % | 365 % | ASTM D882 |
| Film Elongation at Break, TD | 695 % | 695 % | ASTM D882 |
| Elongation at Break | 770 % | 770 % | 500mm/min; ASTM D638 |
| Secant Modulus, MD | 0.0560 GPa | 8.12 ksi | 0.01; ASTM D882 |
| Secant Modulus, TD | 0.0560 GPa | 8.12 ksi | 0.01; ASTM D882 |
| Elmendorf Tear Strength, MD | 1.15 g/micron | 29.2 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 4.99 g/micron | 127 g/mil | ASTM D1922 |
| Dart Drop | 6.04 g/micron | 153 g/mil | ASTM D1709A |
| Film Tensile Strength at Break, MD | 19.0 MPa | 2760 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 14.0 MPa | 2030 psi | ASTM D882 |
| Heat Seal Strength Initiation | | | |

| Temperature Mechanical Properties | 70.0 °C Metric | 158 °F English | Eastman Comments |
|--------------------------------------|-------------------|-------------------|---------------------|
| Thermal Properties | Metric | English | Comments |
| Melting Point | 84.0 °C | 183 °F | DSC |
| Brittleness Temperature | <= -73.0 °C | <= -99.4 °F | ASTM D746 |
| Optical Properties | Metric | English | Comments |
| Haze | 49 % | 49 % | ASTM D1003 |
| Gloss | 15 % | 15 % | ASTM D2457 |

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