

EMAC® SP2205

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 Flexibility | | |
| | Good Toughness | | |
| | High ESCR (Stress Crack Resist.) | | |
| | Low Temperature Toughness | | |
| | Soft | | |
| Uses | Agricultural Applications | | |
| | Automotive Applications | | |
| | Cosmetics | | |
| | Film | | |
| | Household Goods | | |
| | Medical/Healthcare Applications | | |
| | Packaging | | |
| Forms | Pellets | | |
| Processing Method | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.942 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Methyl Acrylate Content | 20.0 | wt% | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 40 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Break) | 12.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 810 | % | ASTM D638 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -73.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 55.0 | °C | ASTM D1525 |
| Peak Melting Temperature | 82.0 | °C | ASTM D3418 |

NOTE

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|----|---------------------|
| 1. | Type IV, 500 mm/min |
| 2. | Type IV, 500 mm/min |

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