

# Optema™ TC 114 Cast

Ethylene Methyl Acrylate Copolymer Resin

ExxonMobil Chemical

## Message:

OPTEMA TC 114 is an ethylene-methyl acrylate copolymer, specially developed for extruding properties for blown film and cast film applications. It can be used to produce soft elastic films with good operability without additional additives. OPTEMA TC 114 can be used to produce films with a thickness of less than 1.0 mils.

| General Information                       |                       |          |                   |
|---|-----------------------|----------|-------------------|
| Additive                                  | Anti-caking agent (1) |          |                   |
|   | heat stabilizer       |          |                   |
|   | Slip agent (3000 ppm) |          |                   |
| Physical                                  | Nominal Value         | Unit     | Test Method       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.2                   | g/10 min | ASTM D1238        |
| Methyl Acrylate Content                   | 18.0                  | wt%      | ExxonMobil Method |
| Films                                     | Nominal Value         | Unit     | Test Method       |
| secant modulus                            |                       |          | ASTM D882         |
| 1% secant, MD                             | 56.0                  | MPa      | ASTM D882         |
| 1% secant, TD                             | 56.4                  | MPa      | ASTM D882         |
| Tensile Strength                          |                       |          | ASTM D882         |
| MD: Fracture                              | 22.2                  | MPa      | ASTM D882         |
| TD: Fracture                              | 15.7                  | MPa      | ASTM D882         |
| Tensile Elongation                        |                       |          | ASTM D882         |
| MD: Fracture                              | 350                   | %        | ASTM D882         |
| TD: Fracture                              | 790                   | %        | ASTM D882         |
| Dart Drop Impact                          | 180                   | g        | ASTM D1709A       |
| Elmendorf Tear Strength                   |                       |          | ASTM D1922        |
| MD  | 93                    | g        | ASTM D1922        |
| TD  | 350                   | g        | ASTM D1922        |
| Thermal                                   | Nominal Value         | Unit     | Test Method       |
| Vicat Softening Temperature               | 57.0                  | °C       | ASTM D1525        |
| Legal statement                           |                       |          |                   |

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# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

