

# EMPBT® IM

Polybutylene Terephthalate

EMAS Plastik San.Tic.AS.

Message:

PBT impact modified

| General Information                               |               |                   |             |
|---------------------------------------------------|---------------|-------------------|-------------|
| Physical                                          | Nominal Value | Unit              | Test Method |
| Density                                           | 1.25 to 1.35  | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                         | 4.0 to 14     | g/10 min          | ISO 1133    |
| Molding Shrinkage                                 | 0.90 to 1.1   | %                 |             |
| Hardness                                          | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore D)                          | 70 to 80      |                   | ISO 868     |
| Mechanical                                        | Nominal Value | Unit              | Test Method |
| Tensile Modulus                                   | 3000 to 5000  | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                            | 30.0 to 50.0  | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | > 6.0         | %                 | ISO 527-2   |
| Impact                                            | Nominal Value | Unit              | Test Method |
| Notched Izod Impact Strength                      | > 15          | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                           | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 145           | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | 150           | °C                | ISO 306/B   |
| Melting Temperature (DSC)                         | 230           | °C                | ISO 3146    |

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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



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