

# Toyolac® TP90-X10

Methyl Methacrylate / ABS

Toray Resin Company

Message:

Toyolac® TP90-X10 is a Methyl Methacrylate / ABS (MABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- Antistatic
- Wear Resistant

| General Information                       |                   |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
| Additive                                  | Antistatic        |                   |             |
| Features                                  | Antistatic        |                   |             |
|                                           | Durable           |                   |             |
| Appearance                                | Clear/Transparent |                   |             |
| Part Marking Code                         | >MABS<            |                   |             |
| Physical                                  | Nominal Value     | Unit              | Test Method |
| Specific Gravity                          |                   |                   |             |
| --                                        | 1.11              | g/cm <sup>3</sup> | ASTM D792   |
| 23°C                                      | 1.11              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 31                | g/10 min          | ISO 1133    |
| Mechanical                                | Nominal Value     | Unit              | Test Method |
| Tensile Strength                          |                   |                   |             |
| --                                        | 32.0              | MPa               | ASTM D638   |
| 23°C                                      | 40.0              | MPa               | ISO 527-2   |
| Tensile Elongation                        |                   |                   |             |
| Break                                     | 10                | %                 | ASTM D638   |
| Break, 23°C                               | 10                | %                 | ISO 527-2   |
| Flexural Modulus                          |                   |                   |             |
| --                                        | 1690              | MPa               | ASTM D790   |
| 23°C                                      | 1490              | MPa               | ISO 178     |
| Flexural Strength                         |                   |                   |             |
| --                                        | 56.0              | MPa               | ASTM D790   |
| 23°C                                      | 55.0              | MPa               | ISO 178     |
| Impact                                    | Nominal Value     | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)     | 15                | kJ/m <sup>2</sup> | ISO 179     |
| Notched Izod Impact                       |                   |                   | ASTM D256   |
| 23°C, 3.20 mm                             | 100               | J/m               |             |
| 23°C, 12.7 mm                             | 140               | J/m               |             |
| Thermal                                   | Nominal Value     | Unit              | Test Method |

|                                                                  |               |      |                 |
|------------------------------------------------------------------|---------------|------|-----------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 78.0          | °C   | ASTM D648       |
| Electrical                                                       | Nominal Value | Unit | Test Method     |
| Surface Resistivity                                              | 8.0E+9        | ohms | ASTM D257       |
| Electrostatic Voltage <sup>1</sup> (23°C)                        | 300           | V    | Internal Method |
| Half-life of Electrostatic Voltage Decay <sup>2</sup> (23°C)     | 0.3           | sec  | Internal Method |
| Flammability                                                     | Nominal Value | Unit | Test Method     |
| Flame Rating                                                     | HB            |      | UL 94           |
| Optical                                                          | Nominal Value | Unit | Test Method     |
| Transmittance (Total, 3000 μm)                                   | 73.0          | %    | ISO 13468       |
| Haze (3000 μm)                                                   | 17            | %    | ISO 14782       |
| NOTE                                                             |               |      |                 |
| 1.                                                               | 50%, 24 hr    |      |                 |
| 2.                                                               | 50%, 24 hr    |      |                 |

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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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