

# Toraycon® 1200MF

Polybutylene Terephthalate

Toray Plastics (Malaysia) Sdn. Bhd.

Message:

Optical Loose Tube

| General Information                         |               |                                |                 |
|---------------------------------------------|---------------|--------------------------------|-----------------|
| Uses                                        |               | Optical Applications<br>Tubing |                 |
| RoHS Compliance                             |               | RoHS Compliant                 |                 |
| Physical                                    | Nominal Value | Unit                           | Test Method     |
| Specific Gravity                            |               |                                |                 |
| --                                          | 1.31          | g/cm <sup>3</sup>              | ASTM D792       |
| --                                          | 1.32          | g/cm <sup>3</sup>              | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (250°C/1.0 kg)    | 8.7           | g/10 min                       | ISO 1133        |
| Melt Volume-Flow Rate (MVR) (250°C/2.16 kg) | 16.0          | cm <sup>3</sup> /10min         | ISO 1133        |
| Viscosity Number <sup>1</sup> (0.5% OCP)    | 1.23          | cm <sup>3</sup> /g             | Internal Method |
| Mechanical                                  | Nominal Value | Unit                           | Test Method     |
| Tensile Strength                            |               |                                |                 |
| Yield                                       | 54.0          | MPa                            | ASTM D638       |
| --                                          | 58.0          | MPa                            | ISO 527-2       |
| Tensile Elongation                          |               |                                |                 |
| Break                                       | > 150         | %                              | ASTM D638       |
| Break                                       | 120           | %                              | ISO 527-2       |
| Flexural Modulus                            |               |                                |                 |
| --                                          | 2500          | MPa                            | ASTM D790       |
| --                                          | 2400          | MPa                            | ISO 178         |
| Flexural Strength                           |               |                                |                 |
| --                                          | 82.0          | MPa                            | ASTM D790       |
| --                                          | 83.0          | MPa                            | ISO 178         |
| Impact                                      | Nominal Value | Unit                           | Test Method     |
| Charpy Notched Impact Strength              | 5.1           | kJ/m <sup>2</sup>              | ISO 179         |
| Notched Izod Impact                         | 52            | J/m                            | ASTM D256       |
| Thermal                                     | Nominal Value | Unit                           |                 |
| Melting Temperature                         | 224           | °C                             |                 |
| NOTE                                        |               |                                |                 |

1.

Intrinsic Viscosity under  
phenol/dichlorobenzene method,  
1050M = 0.77 dl/g, 1100M =  
0.83dl/g, 1200M = 1.08dl/g.

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