

# BESTPOLUX PCTM

Polycarbonate + PET

Triesa Plastics

## Message:

PC/PET natural lubricated with impact modifier to gain improvements in injection and moulding generally used for pieces in conjunction with improved dimensional stability, better impact and good final surface for general industry.

| General Information                     |                            |                   |             |
|-----------------------------------------|----------------------------|-------------------|-------------|
| Additive                                | Impact modifier            |                   |             |
|                                         | Lubricant                  |                   |             |
| Features                                | Good dimensional stability |                   |             |
|                                         | Impact modification        |                   |             |
|                                         | Lubrication                |                   |             |
|                                         | General                    |                   |             |
|                                         | Excellent appearance       |                   |             |
| Uses                                    | General                    |                   |             |
| Appearance                              | Natural color              |                   |             |
| Forms                                   | Particle                   |                   |             |
| Processing Method                       | Injection molding          |                   |             |
| Physical                                | Nominal Value              | Unit              | Test Method |
| Density                                 | 1.24                       | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)               | 30                         | g/10 min          | ISO 1133    |
| Water Absorption (23°C, 24 hr)          | 0.20                       | %                 | ISO 62      |
| Hardness                                | Nominal Value              | Unit              | Test Method |
| Durometer Hardness (Shore D)            | 80                         |                   | ISO 868     |
| Mechanical                              | Nominal Value              | Unit              | Test Method |
| Tensile Modulus                         | 2000                       | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                  | 55.0                       | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | > 50                       | %                 | ISO 527-2   |
| Impact                                  | Nominal Value              | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 54                         | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength (23°C) | No Break                   |                   | ISO 179     |
| Thermal                                 | Nominal Value              | Unit              | Test Method |
| Heat Deflection Temperature             |                            |                   |             |
| 0.45 MPa, not annealed                  | 120                        | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                   | 100                        | °C                | ISO 75-2/A  |
| Vicat Softening Temperature             | 125                        | °C                | ISO 306     |
| Electrical                              | Nominal Value              | Unit              | Test Method |

|                                                                         |               |       |             |
|-------------------------------------------------------------------------|---------------|-------|-------------|
| Surface Resistivity                                                     | 1.0E+16       | ohms  | IEC 60093   |
| Dielectric Strength                                                     | 35            | kV/mm | IEC 60243-1 |
| Flammability                                                            | Nominal Value | Unit  | Test Method |
| Flame Rating                                                            | HB            |       | UL 94       |
| Additional Information                                                  |               |       |             |
| Humidity Pellets, ISO 1110: 0.2%Flammability Speed, FMV 302:<100 mm/min |               |       |             |
| Injection                                                               | Nominal Value | Unit  |             |
| Drying Temperature                                                      | 100           | °C    |             |
| Drying Time                                                             | 2.0 - 4.0     | hr    |             |
| Processing (Melt) Temp                                                  | 260 - 275     | °C    |             |
| Mold Temperature                                                        | 80.0          | °C    |             |

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