

# Multilon® TN-3725B

TEIJIN LIMITED - Polycarbonate + ABS

## General Information

### Product Description

PC/ABS polymer alloy, Mineral filler reinforced, Non-halogen type flame resistant series

### General

|                        |                      |                               |                 |
|------------------------|----------------------|-------------------------------|-----------------|
| Filler / Reinforcement | • Mineral            |                               |                 |
| Properties             | • Flame Retardant    | • Halogen Free                | • High Rigidity |
| Uses                   | • Business Equipment | • Office Automation Equipment |                 |
| Forms                  | • Pellets            |                               |                 |
| Processing Method      | • Injection Molding  |                               |                 |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                | Nominal Value | Unit              | Test Method     |
|-----------------------------------------|---------------|-------------------|-----------------|
| Density                                 | 1.30          | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                       |               |                   | Internal Method |
| Across Flow : 4.00 mm                   | 0.35 to 0.55  | %                 |                 |
| Flow : 4.00 mm                          | 0.35 to 0.55  | %                 |                 |
| Mechanical                              | Nominal Value | Unit              | Test Method     |
| Tensile Stress (Yield, 23°C)            | 65.0          | MPa               | ISO 527-2/5     |
| Tensile Stress (Break, 23°C)            | 40.0          | MPa               | ISO 527-2/5     |
| Tensile Strain (Break, 23°C)            | 10            | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup> (23°C)    | 4600          | MPa               | ISO 178         |
| Flexural Stress <sup>2</sup> (23°C)     | 100           | MPa               | ISO 178         |
| Impact                                  | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)   | 8.0           | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C) | No Break      |                   | ISO 179         |
| Thermal                                 | Nominal Value | Unit              | Test Method     |
| Deflection Temperature Under Load       |               |                   | ISO 75-2/A      |
| 1.8 MPa, Unannealed                     | 91.0          | °C                |                 |
| CLTE - Flow                             | 5.0E-5        | cm/cm/°C          | ISO 11359-2     |
| CLTE - Transverse                       | 5.0E-5        | cm/cm/°C          | ISO 11359-2     |
| RTI Elec (1.0 mm)                       | 100           | °C                | UL 746B         |
| RTI Imp (1.0 mm)                        | 100           | °C                | UL 746B         |
| RTI Str (1.0 mm)                        | 100           | °C                | UL 746B         |
| Electrical                              | Nominal Value | Unit              | Test Method     |
| Surface Resistivity                     | 1.0E+16       | ohms              | IEC 60093       |
| Flammability                            | Nominal Value | Unit              | Test Method     |
| Flame Rating                            |               |                   | UL 94           |
| 0.8 mm                                  | V-1           |                   |                 |
| 1.0 mm                                  | V-0           |                   |                 |
| 1.5 mm                                  | 5VB           |                   |                 |

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### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 80            | °C   |
| Drying Time            | 5.0 to 8.0    | hr   |
| Processing (Melt) Temp | 230 to 270    | °C   |
| Mold Temperature       | 50 to 70      | °C   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min