

EMERGE™ PC/ABS 7590

(PC+ABS)

Trinseo

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 17 | g/10min | ASTM D 1238 |
| Temperature | 230 | °C | - |
| Load | 3.8 | kg | - |
| Mold Shrinkage, MD | 0.005 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 62.1 | MPa | ASTM D 638 |
| Tensile Strength at Break | 46.2 | MPa | ASTM D 638 |
| Elongation at Yield | 4 | % | ASTM D 638 |
| Elongation at Break | 50 | % | ASTM D 638 |
| Flexural Modulus | 2827 | MPa | ASTM D 790 |
| Flexural Strength | 97.9 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 641 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
| ASTM Data | | | |
| UL 94 Flame rating | V-0 | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 66 psi | 93.9 | °C | ASTM D 648 |
| DTUL @ 264 psi | 82.2 | °C | ASTM D 648 |
| Vicat Temperature | 108 | °C | ASTM D 1525 |
| Limiting Oxygen Index | 29 | % | ASTM D 2863 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1170 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---------------------------------------------|-------------|------|---------------|
| Pre-drying - Temperature | 79.4 - 90.6 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 220 - 250 | °C | - |
| Mold temperature | 60 - 90.6 | °C | - |

Characteristics**Processing**

Injection Molding

Applications

IT / Business Machine, Electrical and Electronical

Special Characteristics

Flame retardant

Regional Availability

Asia Pacific