

**TENAC™-C ZLV40**

POM

Asahi Kasei

| Processing/Physical Characteristics       | Value | Unit                   | Test Standard |
|---|-------|------------------------|---------------|
| <b>ISO Data</b>                           |       |                        |               |
| <sup>[C]</sup> Melt volume-flow rate, MVR | 7.8   | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                               | 190   | °C                     | -             |
| Load                                      | 2.16  | kg                     | -             |
| Melt flow index, MFI                      | 9     | g/10min                | ISO 1133      |

[C]: CAMPUS

| Mechanical properties                                | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                                      |       |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 2700  | MPa               | ISO 527       |
| Yield stress   | 61    | MPa               | ISO 527       |
| Strain at break                                      | 20    | %                 | ISO 527       |
| Flexural modulus, 23°C                               | 2600  | MPa               | ISO 178       |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 5     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <b>ASTM Data</b>                                     |       |                   |               |
| Tensile Strength                                     | 56    | MPa               | ASTM D 638    |
| Elongation at Break                                  | 25    | %                 | ASTM D 638    |
| Flexural Modulus                                     | 2600  | MPa               | ASTM D 790    |
| Flexural Strength                                    | 89    | MPa               | ASTM D 790    |
| Rockwell Hardness                                    | M 86  | -                 | ASTM D 785    |
| Izod Impact notched, 1/8 in                          | 56    | J/m               | ASTM D 256    |

[C]: CAMPUS

| Thermal properties   | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>  |       |       |                 |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa    | 100   | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa                   | 157   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Coeff. of linear therm. expansion, parallel | 100   | E-6/K | ISO 11359-1/-2  |
| <sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.       | HB    | class | IEC 60695-11-10 |
| <sup>[C]</sup> Burning Behav. at thickness h               | HB    | class | IEC 60695-11-10 |
| Thickness tested   | 0.8   | mm    | -               |
| Yellow Card available                                      | yes   | -     | -               |
| <b>ASTM Data</b>   |       |       |                 |
| UL 94 Flame rating   | HB    | -     | UL 94           |
| Coefficient of Thermal Expansion, MD                       | 100   | E-6/K | ASTM D 696      |
| DTUL @ 66 psi  | 157   | °C    | ASTM D 648      |
| DTUL @ 264 psi   | 100   | °C    | ASTM D 648      |

[C]: CAMPUS

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| <sup>[C]</sup> Density | 1410  | kg/m <sup>3</sup> | ISO 1183      |
| Water Absorption, 24hr | 0.2   | %                 | ASTM D 570    |
| Density                | 1390  | kg/m <sup>3</sup> | ASTM D 792    |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 80 - 90   | °C   | -             |
| Pre-drying - Time                           | 3 - 4     | h    | -             |
| Melt temperature                            | 180 - 210 | °C   | -             |
| Mold temperature                            | 60        | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Features**

Copolymer

**Delivery form**

Pellets

**Additives**

Lubricants

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa