

## TENAC™-C LZ750

Asahi Kasei Corporation - Acetal (POM) Copolymer

### General Information

#### General

|                                          |                                            |                                  |            |
|------------------------------------------|--------------------------------------------|----------------------------------|------------|
| Additive                                 | • Lubricant                                |                                  |            |
| Features AKEP website                    | • Flow, High<br>• Friction, Low            | • Lubricated<br>• Wear Resistant |            |
| Uses                                     | • Engineering Parts                        | • Gears                          | • Housings |
| Multi-Point Data                         | • Isothermal Stress vs. Strain (ISO 11403) |                                  |            |
| Part Marking Code (ISO11469) (ISO 11469) | • >POM+SI<                                 |                                  |            |

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

| Physical                                  | Nominal Value | Unit              | Test Method           |
|-------------------------------------------|---------------|-------------------|-----------------------|
| Density / Specific Gravity                | 1.39          | g/cm <sup>3</sup> | ASTM D792<br>ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 30            | g/10 min          | ISO 1133              |
| Molding Shrinkage - Flow                  | 1.6 to 2.0    | %                 | Internal Method       |
| Water Absorption (24 hr, 23°C, 50% RH)    | 0.20          | %                 | ASTM D570             |
| Mechanical                                | Nominal Value | Unit              | Test Method           |
| Tensile Modulus                           | 2700          | MPa               | ISO 527-1             |
| Tensile Stress                            |               |                   |                       |
| Yield                                     | 62.0          | MPa               | ISO 527-2             |
| --                                        | 60.0          | MPa               | ASTM D638             |
| Tensile Elongation                        |               |                   |                       |
| Break                                     | 20            | %                 | ASTM D638             |
| Break                                     | 15            | %                 | ISO 527-2             |
| Flexural Modulus                          |               |                   |                       |
| --                                        | 2800          | MPa               | ASTM D790             |
| --                                        | 2700          | MPa               | ISO 178               |
| Flexural Strength                         | 91.0          | MPa               | ASTM D790             |



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| Impact                            | Nominal Value | Unit     | Test Method              |
|-----------------------------------|---------------|----------|--------------------------|
| Charpy Notched Impact Strength    | 3.0           | kJ/m²    | ISO 179                  |
| Notched Izod Impact               | 35            | J/m      | ASTM D256                |
| Hardness                          | Nominal Value | Unit     | Test Method              |
| Rockwell Hardness                 |               |          | ASTM D785                |
| M-Scale                           | 86            |          |                          |
| R-Scale                           | 117           |          |                          |
| Thermal                           | Nominal Value | Unit     | Test Method              |
| Deflection Temperature Under Load |               |          |                          |
| 0.45 MPa, Unannealed              | 157           | °C       | ASTM D648<br>ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 100           | °C       | ASTM D648<br>ISO 75-2/A  |
| CLTE - Flow                       | 1.0E-4        | cm/cm/°C | ASTM D696<br>ISO 11359-2 |
| Flammability                      | Nominal Value | Unit     | Test Method              |
| Flame Rating (0.75 mm)            | HB            |          | UL 94                    |

| Processing Information             |               |      |  |
|------------------------------------|---------------|------|--|
| Injection                          | Nominal Value | Unit |  |
| Drying Temperature - Hot Air Dryer | 80 to 90      | °C   |  |
| Drying Time - Hot Air Dryer        | 3.0 to 4.0    | hr   |  |
| Processing (Melt) Temp             | 180 to 210    | °C   |  |
| Mold Temperature                   | > 60          | °C   |  |



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Curve Data

Isothermal Stress vs. Strain (ISO 11403)

