

# Asahi Kasei TENAC™ -C 4590

TENAC™ -C 4590 is a POM copolymer with an HB flame retardancy rating, categorized as a food contact grade material.

| Physical property               | Standard        | Value    | Unit              |
|---------------------------------|-----------------|----------|-------------------|
| Density                         | ISO 1183        | 1.41     | g/cm <sup>3</sup> |
| Shrinkage Flow                  | INTERNAL METHOD | 1.6 ~2.0 | %                 |
| Water Absorption 23°C 50RH 24hr | ASTM D570       | 0.2      | %                 |
| Melt Index 190°C 2.16kg         | ISO 1133        | 9        | g/10min           |
| Mechanical behavior             | Standard        | Value    | Unit              |
| Tensile Modulus                 | ISO 527         | 2700     | MPa               |
| Tensile Strength Yield          | ISO 527         | 63       | MPa               |
| Elongation Break                | ISO 527         | 35       | %                 |
| Flexural Modulus                | ISO 178         | 2500     | MPa               |
| Charpy Notch Impact             | ISO 179         | 7        | kJ/m <sup>2</sup> |
| Thermal                         | Standard        | Value    | Unit              |
| HDT Unannealed 1.8MPa           | ISO 75          | 100      | °C                |
| CLE Flow                        | ISO 11359       | 0.0001   | cm/cm/°C          |
| Flammability                    | Standard        | value    | Unit              |
| Flame Rating All Color 0.75mm   | UL94            | HB       |                   |