

# Topas® 8007S-4 Cyclo olefin copolymer Granules

**Grade:** Topas® 8007S-4

**Formula:** Topas®

**Nominal Granule Size:** 3mm

**Weight:** 1000g

**CAS Number:** 26007-43-2

**UOM Code:** 104-837-36

**SKU:** 1000018055-group

**Product Code:** ET35-GL-000103

## Material Properties for Polymers

### Physical Properties

| Element                               | Value     |
|---------------------------------------|-----------|
| Abbe number                           | 58        |
| Flammability                          | HB        |
| Radiation resistance                  | Good      |
| Refractive index                      | 1.53      |
| Resistance to Ultra-violet            | Fair-Poor |
| Optical transmission( % )             | 92-94     |
| Water absorption( % )                 | 0.01      |
| Water absorption - over 24 hours( % ) | 0.01      |
| Density( gcm <sup>3</sup> )           | 1.02      |

### Chemical Resistance

| Element          | Value     |
|------------------|-----------|
| Acids - dilute   | Good      |
| Alcohols         | Good      |
| Alkalis          | Good      |
| Greases and Oils | Fair-Poor |

### Mechanical Properties

| Element                  | Value |
|--------------------------|-------|
| Elongation at break( % ) | 3     |

| <b>Element</b>          | <b>Value</b> |
|-------------------------|--------------|
| Tensile modulus( GPa )  | 3.1          |
| Tensile strength( MPa ) | 66           |

### **Thermal Properties**

| <b>Element</b>  | <b>Value</b> |
|---|--------------|
| Heat-deflection temperature - 0.45MPa( C )                            | 130          |
| Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )             | 0.16         |
| Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> ) | 60           |

### **Electrical Properties**

| <b>Element</b>                | <b>Value</b>     |
|-------------------------------|------------------|
| Surface resistivity( Ohm/sq ) | 10 <sup>11</sup> |
| Volume resistivity( Ohmcm )   | 10 <sup>12</sup> |