

# 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>