



## LNP™ THERMOCOMP™ Compound 9X10401H

### Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound 9X10401H

Product reorder name: 9X10401H

LNP THERMOCOMP 9X10401H is a compound based on Polyphenylsulfone containing proprietary filler(s). Added feature of this grade is: X-Ray Opaque.

| TYPICAL PROPERTIES <sup>1</sup>          | TYPICAL VALUE | Unit                | Standard    |
|------------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                        |               |                     |             |
| Tensile Stress, yld, Type I, 5 mm/min    | 730           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 5 mm/min    | 580           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 5 mm/min    | 7             | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 5 mm/min    | 12            | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                | 27100         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 27700         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 5 mm/min          | 71            | MPa                 | ISO 527     |
| Tensile Stress, break, 5 mm/min          | 57            | MPa                 | ISO 527     |
| Tensile Strain, yield, 5 mm/min          | 7             | %                   | ISO 527     |
| Tensile Strain, break, 5 mm/min          | 12            | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                | 2550          | MPa                 | ISO 527     |
| Flexural Stress                          | 0             | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min               | 2570          | MPa                 | ISO 178     |
| <b>IMPACT</b>                            |               |                     |             |
| Izod Impact, unnotched, 23°C             | 167           | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C               | 8             | cm-kgf/cm           | ASTM D 256  |
| Multiaxial Impact                        | 295           | cm-kgf              | ISO 6603    |
| Instrumented Impact Total Energy, 23°C   | 346           | cm-kgf              | ASTM D 3763 |
| Izod Impact, unnotched 80*10*4 +23°C     | 175           | kJ/m <sup>2</sup>   | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C       | 8             | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                           |               |                     |             |
| HDT, 0.45 MPa, 3.2 mm, unannealed        | 214           | °C                  | ASTM D 648  |
| HDT, 1.82 MPa, 3.2mm, unannealed         | 203           | °C                  | ASTM D 648  |



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|----------------------------------------|---------------|-------------------|------------|
| <b>THERMAL</b>                         |               |                   |            |
| CTE, -30°C to 30°C, flow               | 5.3E-05       | 1/°C              | ASTM D 696 |
| CTE, -30°C to 30°C, xflow              | 5.3E-05       | 1/°C              | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 213           | °C                | ISO 75/Bf  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 200           | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                        |               |                   |            |
| Specific Gravity                       | 1.46          | -                 | ASTM D 792 |
| Density                                | 1.45          | g/cm <sup>3</sup> | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs    | 0.26          | %                 | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs (5)       | 0.8 - 1       | %                 | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5)      | 1 - 3         | %                 | ASTM D 955 |
| Moisture Absorption (23°C / 50% RH)    | 0.47          | %                 | ISO 62     |