

SABIC Innovative Plastics LNP THERMOCOMP MK0049A PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STARFLAM* MK0049A is a compound based on Polypropylene resin containing Talc, Flame Retardant. Added features include : Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-MK0049A-PP-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------|---------------------------|--------------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | ISO 1183 |
| Water Absorption | 0.010 % | 0.010 % | ISO 62-1 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.011 cm/cm | 0.011 in/in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 19.0 MPa | 2760 psi | 50 mm/min; ISO 527 |
| Tensile Strength, Yield | 22.0 MPa | 3190 psi | 50 mm/min; ISO 527 |
| Elongation at Yield | 2.6 % | 2.6 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 2.60 GPa | 377 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 37.0 MPa | 5370 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.90 GPa | 421 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 4.00 kJ/m ² | 1.90 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 15.0 kJ/m ² | 7.14 ft-lb/in ² | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 82.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 45.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 128 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 71.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 115 $\text{Å}^\circ\text{C}$ | 239 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Bf |

| Thermal Properties Deflection Temperature at 1.8 MPa (204 psi) | Metric C | English | Comments |
|--|---------------------------|-----------------------------|---|
| Flammability, UL94 | V-0 @Thickness 1.60 mm | V-0 @Thickness 0.0630 in | 0+4 sp=64mm; ISO 75/Af UL 94 by SABIC-IP |

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