

SABIC Innovative Plastics LNP THERMOCOMP Cycloy_C7210A PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

LNP* Thermocomp* Cycloy_C7210A isa a talc-filled PC+ABS, nonhalogenated FR for thinwall molding applications. Very good modulus-ductility balance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-CycloyC7210A-PCABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--|--------------|
| Specific Gravity | 1.22 g/cc | 1.22 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm @Thickness 3.20 mm | 0.0030 - 0.0050 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm @Thickness 3.20 mm | 0.0040 - 0.0060 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 16.4 g/10 min @Load 2.16 kg, Temperature 260 Â°C | 16.4 g/10 min @Load 4.76 lb, Temperature 500 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Tensile Strength at Break | 48.0 MPa | 6960 psi | Type I, 5 mm/min; ASTM D638 |
| Tensile Strength, Yield | 63.0 MPa | 9140 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 80 % | 80 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 3.6 % | 3.6 % | Type I, 5 mm/min; ASTM D638 |
| Tensile Modulus | 3.51 GPa | 509 ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | 106 MPa | 15400 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 3.14 GPa | 455 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 1.76 J/cm | 3.30 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 18.69 J/cm | 35.01 ft-lb/in | ASTM D4812 |
| Dart Drop, Total Energy | 47.0 J @Temperature 23.0 Â°C | 34.7 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 59.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 33.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 92.0 $\text{Å}^\circ\text{C}$ | 198 $\text{Å}^\circ\text{F}$ | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 82.0 $\text{Å}^\circ\text{C}$ | 180 $\text{Å}^\circ\text{F}$ | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Vicat Softening Point | 101 $\text{Å}^\circ\text{C}$ | 214 $\text{Å}^\circ\text{F}$ | Rate B/50; ASTM D1525 |
| UL RTI, Electrical | 60.0 $\text{Å}^\circ\text{C}$ | 140 $\text{Å}^\circ\text{F}$ | UL 746B |
| UL RTI, Mechanical with Impact | 60.0 $\text{Å}^\circ\text{C}$ | 140 $\text{Å}^\circ\text{F}$ | UL 746B |
| UL RTI, Mechanical without Impact | 60.0 $\text{Å}^\circ\text{C}$ | 140 $\text{Å}^\circ\text{F}$ | UL 746B |
| Flammability, UL94 | V-0 | V-0 | UL 94 |
| | @Thickness 1.19 mm | @Thickness 0.0469 in | |
| | 5VB | 5VB | UL 94 |
| | @Thickness 1.98 mm | @Thickness 0.0780 in | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China