

SABIC Innovative Plastics LNP Colorcomp DX98735 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP COLORCOMP* DX98735 is a compound based on Polycarbonate resin containing Proprietary Fillers. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Colorcomp-DX98735-PC.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---------------------------|---------------------------|-----------------------|
| Specific Gravity | 1.21 g/cc | 1.21 g/cc | ASTM D 792 |
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ASTM D 792 |
| Moisture Absorption at Equilibrium | 0.21 % | 0.21 % | 23°C / 50% RH; ISO 62 |
| | 0.14 % @Time 86400 sec | 0.14 % @Time 24.0 hour | 50% RH; ASTM D 570 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0080 - 0.010 cm/cm | 0.0080 - 0.010 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|------------------------------|
| Tensile Strength at Break | 54.0 MPa | 7830 psi | Type I, 5 mm/min; ASTM D 638 |
| | 58.0 MPa | 8410 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 62.0 MPa | 8990 psi | 5 mm/min; ISO 527 |
| | 64.0 MPa | 9280 psi | Type I, 5 mm/min; ASTM D 638 |
| Elongation at Break | 66 % | 66 % | Type I, 5 mm/min; ASTM D 638 |
| | 167 % | 167 % | 5 mm/min; ISO 527 |
| Elongation at Yield | 6.2 % | 6.2 % | 5 mm/min; ISO 527 |
| | 6.3 % | 6.3 % | Type I, 5 mm/min; ASTM D 638 |
| Tensile Modulus | 2.24 GPa | 325 ksi | 1 mm/min; ISO 527 |
| | 2.33 GPa | 338 ksi | 50 mm/min; ASTM D 638 |
| Flexural Strength | 80.0 MPa | 11600 psi | ISO 178 |

| Flexural Modulus Mechanical Properties | 2.28 GPa Metric | 331 ksi English | 2 mm/min; ISO 178 Comments |
|---|--|--|--|
| | 2.46 GPa | 357 ksi | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Izod Impact, Notched | 1.01 J/cm @Temperature 23.0 °C | 1.89 ft-lb/in @Temperature 73.4 °F | ASTM D 256 |
| Izod Impact, Unnotched | 25.2 J/cm @Temperature 23.0 °C | 47.2 ft-lb/in @Temperature 73.4 °F | ASTM D 4812 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² @Temperature 23.0 °C | 4.28 ft-lb/in ² @Temperature 73.4 °F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 212 kJ/m ² @Temperature 23.0 °C | 101 ft-lb/in ² @Temperature 73.4 °F | 80*10*4; ISO 180/1U |
| Impact Test | 77.0 J | 56.8 ft-lb | Multiaxial Impact; ISO 6603 |
| | 61.0 J @Temperature 23.0 °C | 45.0 ft-lb @Temperature 73.4 °F | Instrumented Impact Total Energy; ASTM D 3763 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|----------------------------------|
| CTE, linear, Parallel to Flow | 67.0 µm/m-°C @Temperature -30.0 - 30.0 °C | 37.2 µin/in-°F @Temperature -22.0 - 86.0 °F | ASTM D 696 |
| CTE, linear, Transverse to Flow | 69.0 µm/m-°C @Temperature -30.0 - 30.0 °C | 38.3 µin/in-°F @Temperature -22.0 - 86.0 °F | ASTM D 696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 138 °C | 280 °F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 139 °C @Thickness 3.20 mm | 282 °F @Thickness 0.126 in | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 126 °C | 259 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 132 °C @Thickness 3.20 mm | 270 °F @Thickness 0.126 in | unannealed; ASTM D 648 |

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