

SABIC Innovative Plastics LNP Stat-loy 9X05426C PMMA

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

LNP* Stat-loy* 9X05426C is a compound based on PMMA resin containing Anti-Static. Added features of this material include:

Antistat. 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-Stat-loy-9X05426C-PMMA.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|---------------------------|------------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | ISO 1183 |
| | 1.14 g/cc | 0.0412 lb/in ³ | ASTM D 792 |
| Linear Mold Shrinkage, Flow | 0.0080 cm/cm | 0.0080 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0082 cm/cm | 0.0082 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0098 cm/cm | 0.0098 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.010 cm/cm | 0.010 in/in | ASTM D 955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-----------------------|
| Tensile Strength at Break | 39.0 MPa | 5660 psi | ISO 527 |
| | 40.0 MPa | 5800 psi | ASTM D 638 |
| Tensile Strength, Yield | 42.0 MPa | 6090 psi | ASTM D 638 |
| | 42.0 MPa | 6090 psi | ISO 527 |
| Elongation at Break | 18.4 % | 18.4 % | ASTM D 638 |
| | 20.3 % | 20.3 % | ISO 527 |
| Elongation at Yield | 6.2 % | 6.2 % | ISO 527 |
| | 6.7 % | 6.7 % | ASTM D 638 |
| Tensile Modulus | 1.47 GPa | 213 ksi | 1 mm/min; ISO 527 |
| | 1.75 GPa | 254 ksi | 50 mm/min; ASTM D 638 |

| Flexural Strength Mechanical Properties | 44.0 MPa Metric | 6380 psi English | ISO 178 Comments |
|--|---|--|---|
| | 55.0 MPa | 7980 psi | ASTM D 790 |
| Flexural Modulus | 1.41 GPa | 205 ksi | ISO 178 |
| | 1.66 GPa | 241 ksi | ASTM D 790 |
| Izod Impact, Notched | 0.320 J/cm @Temperature 23.0 Â°C | 0.599 ft-lb/in @Temperature 73.4 Â°F | ASTM D 256 |
| Izod Impact, Unnotched | 5.39 J/cm @Temperature 23.0 Â°C | 10.1 ft-lb/in @Temperature 73.4 Â°F | ASTM D 4812 |
| Izod Impact, Notched (ISO) | 4.00 kJ/mÂ² @Temperature 23.0 Â°C | 1.90 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 45.0 kJ/mÂ² @Temperature 23.0 Â°C | 21.4 ft-lb/inÂ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |
| Impact Test | 2.00 J @Temperature 23.0 Â°C | 1.48 ft-lb @Temperature 73.4 Â°F | Instrumented Impact Energy @ peak; ASTM D 3763 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|----------------------------------|
| CTE, linear, Parallel to Flow | 101 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 56.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 101 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 56.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 108 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 60.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ASTM E 831 |
| | 109 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C | 60.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F | ISO 11359-2 |
| Deflection Temperature at 0.46 MPa (66 psi) | 79.0 Â°C | 174 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 79.0 Â°C @Thickness 3.20 mm | 174 Â°F @Thickness 0.126 in | unannealed; ASTM D 648 |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|---------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 79.9 Â°C | 156 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/A1 |
| | 67.0 Â°C | 153 Â°F | unannealed; ASTM D 648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------------------------|------------------------------|------------|
| Volume Resistivity | 1.00e+9 - 1.00e+11 ohm-cm | 1.00e+9 - 1.00e+11 ohm-cm | ASTM D 257 |
| Surface Resistance | 1.00e+9 - 1.00e+11 ohm | 1.00e+9 - 1.00e+11 ohm | ASTM D 257 |

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