

Eurostar Staramide AST42K PA66, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

AST42K is a Low Temperature Impact Modified Polyamide 66 Injection Molding Resin. Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-AST42K-PA66-Impact-Modified-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------|---------------------------|-------------------------|
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.015 - 0.020 cm/cm | 0.015 - 0.020 in/in | on Tensile Bar; ISO 294 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|---------------------------------|
| Tensile Strength at Break | 65.0 MPa | 9430 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 20 % | 20 % | 5 mm/min; ISO 527 |
| Elongation at Yield | 4.5 % | 4.5 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 2.60 GPa | 377 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 90.0 MPa | 13100 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.40 GPa | 348 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² | 4.28 ft-lb/in ² | Edgew 80x10x4 sp=62; ISO 180/1A |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 11.0 kJ/m ² | 5.23 ft-lb/in ² | |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | Edgew 80x10x4 sp=62; ISO 180/1A |
| | 12.0 kJ/m ² | 5.71 ft-lb/in ² | Edgew 80x10x4 sp=62; ISO 180/1A |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|-----------------------------|----------------------------|-------------|
| CTE, linear, Parallel to Flow | 60.0 µm/m-°C | 33.3 µin/in-°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 °C | @Temperature 73.4 - 140 °F | |
| CTE, linear, Transverse to Flow | 92.0 µm/m-°C | 51.1 µin/in-°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 °C | @Temperature 73.4 - 140 °F | |

| Thermal Properties | 200 °C Metric | 392 °F English | Edgew 120x10x4, sp=100 mm; ISO 75/Af |
|--|---------------------|----------------------|--------------------------------------|
| Deflection Temperature at 0.46 MPa (264 psi) | 73.0 °C | 163 °F | Edgew 120x10x4, sp=100 mm; ISO 75/Af |
| Vicat Softening Point | 220 °C | 428 °F | B/50; ISO 306 |
| | 225 °C | 437 °F | B/120; ISO 306 |
| UL RTI, Electrical | 65.0 °C | 149 °F | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| UL RTI, Mechanical with Impact | 65.0 °C | 149 °F | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| UL RTI, Mechanical without Impact | 65.0 °C | 149 °F | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 65.0 °C | 149 °F | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| Flammability, UL94 | HB | HB | IEC 60695-11-10 |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | HB | HB | IEC 60695-11-10 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | IEC 60695-11-10 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| | | | |

| Rear Barrel Temperature Processing Properties | 250 - 260 °C Metric | 482 - 500 °F English | Zone 1 Comments |
|--|--------------------------------|---------------------------------|----------------------------|
| Middle Barrel Temperature | 265 - 275 °C | 509 - 527 °F | Zone 2 |
| Front Barrel Temperature | 265 - 275 °C | 509 - 527 °F | Zone 3 |
| Melt Temperature | 265 - 275 °C | 509 - 527 °F | |
| Mold Temperature | 60.0 - 80.0 °C | 140 - 176 °F | |
| Drying Temperature | 75.0 - 85.0 °C | 167 - 185 °F | |
| Dry Time | 4.00 - 6.00 hour | 4.00 - 6.00 hour | |
| Moisture Content | 0.20 % | 0.20 % | |

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