

Styrolution Terblend® N NM-19 ABS/PA6 (Dry)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon

Material Notes:

Terblend N NM-19 is a UV stabilized ABS/PA6 blend combining very high impact strength, even at low temperatures with an excellent processability and surface appearance. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terblend-N-NM-19-ABSPA6-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|-----------------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 1.4 % | 1.4 % | 23°C/50% R.H.; ISO 62 |
| Melt Flow | 19 g/10 min @Load 10.0 kg, Temperature 240 °C | 19 g/10 min @Load 22.0 lb, Temperature 464 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------|----------------------------|-----------------------------------|
| Tensile Strength at Break | 36.0 MPa | 5220 psi | 0.2 in/min; ASTM Test |
| Tensile Strength, Yield | 43.0 MPa | 6240 psi | 50mm/min; ISO 527 |
| | 45.0 MPa | 6530 psi | 2 in/min; ASTM Test |
| Elongation at Break | >= 50 % | >= 50 % | 50mm/min, Nominal strain; ISO 527 |
| | >= 50 % | >= 50 % | 0.2 in/min; ASTM Test |
| Elongation at Yield | 3.5 % | 3.5 % | 50mm/min; ISO 527 |
| Tensile Modulus | 1.93 GPa | 280 ksi | ASTM Test |
| | 2.00 GPa | 290 ksi | 1mm/min; ISO 527 |
| Flexural Strength | 62.0 MPa | 8990 psi | ISO Data |
| Flexural Modulus | 1.80 GPa | 261 ksi | ISO Data |
| Izod Impact, Notched (ISO) | 65.0 kJ/m ² | 30.9 ft-lb/in ² | ISO Test |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| | NB | NB | ISO 179 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | ISO 179 |
| Charpy Impact, Notched | 7.00 J/cm ² | 33.3 ft-lb/in ² | ISO 179 |

| Mechanical Properties | 1.50 J/cm ² Metric | 7.14 ft-lb/in ² English | Comments ISO 178 |
|-----------------------|----------------------------------|---------------------------------------|---------------------|
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|----------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 100 Âµm/m-Â°C | 55.6 Âµin/in-Â°F | ISO 11359 |
| Deflection Temperature at 0.46 MPa (66 psi) | 90.6 Â°C | 195 Â°F | ASTM Test |
| | 95.0 Â°C | 203 Â°F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.6 Â°C | 150 Â°F | ASTM Test |
| | 70.0 Â°C | 158 Â°F | ISO 75 |
| Vicat Softening Point | 103 Â°C | 217 Â°F | (50 Â°C/h / 50N) - B/50; ISO 306 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------------|--------------------------|-------------|
| Volume Resistivity | >= 1.00e+13 ohm-cm | >= 1.00e+13 ohm-cm | IEC 60093 |
| Dielectric Constant | 2.9 | 2.9 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 3.3 | 3.3 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 41.0 kV/mm | 1040 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.015 | 0.015 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|------------------------------|--------------------------|----------|
| Commercial Status | North America and Europe | |
| Primary Processing Technique | Injection Molding | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
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