

Styrolution Terblend® N NMX04 ABS/PA6 (Conditioned)

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

Material Notes:

Terblend N NMX04 is an ABS/PA6 blend specially developed for painted exterior applications, combining impact resistance with excellent processability and paintability. 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-NMX04-ABSPA6-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|---------------------------------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | dry; ISO 1183 |
| Moisture Absorption at Equilibrium | 1.4 % | 1.4 % | beginning dry (23°C/50% R.H.); ISO 62 |
| Melt Flow | 14 g/10 min @Load 10.0 kg, Temperature 240 °C | 14 g/10 min @Load 22.0 lb, Temperature 464 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------------------|---------------------------|-----------------------------------|
| Tensile Strength at Break | 30.0 MPa | 4350 psi | 0.2 in/min; ASTM Test |
| Tensile Strength, Yield | 31.0 MPa | 4500 psi | 2 in/min; ASTM Test |
| | 32.0 MPa | 4640 psi | 50mm/min; ISO 527 |
| Elongation at Break | >= 50 % | >= 50 % | 50mm/min, Nominal strain; ISO 527 |
| | >= 100 % | >= 100 % | 0.2 in/min; ASTM Test |
| Elongation at Yield | 5.5 % | 5.5 % | 50mm/min; ISO 527 |
| Tensile Modulus | 1.38 GPa | 200 ksi | ASTM Test |
| | 1.60 GPa | 232 ksi | 1mm/min; ISO 527 |
| Izod Impact, Notched | NB @Thickness 3.17 mm | NB @Thickness 0.125 in | ASTM Test |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------------|---------------------------------|-----------|
| Volume Resistivity | >= 1.00e+11 ohm-cm | >= 1.00e+11 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+14 ohm | >= 1.00e+14 ohm | IEC 60093 |
| Dielectric Constant | 3.3 @Frequency 1.00e+6 Hz | 3.3 @Frequency 1.00e+6 Hz | IEC 60250 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------------------|-----------------------------------|-------------|
| Dielectric Strength | 38.0 kV/mm | 50 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.055 @Frequency 1.00e+6 Hz | 0.055 @Frequency 1.00e+6 Hz | IEC 60250 |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|-------------------|
| Melt Temperature | 265 Å°C | 509 Å°F | Injection molding |
| Injection Velocity | 65.0 mm/sec | 2.56 in/sec | Injection molding |

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

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