

## Styrolution Terblend® S NM-31 ASA / PA

Category : Polymer , Thermoplastic , ASA Polymer , Nylon

### Material Notes:

Terblend® S is a UV-stabilized ASA/PA blend with high impact strength, easy flow and pronounced color fastness. It is especially suitable for unpainted highly UV-exposed automotive interior parts. Enhanced UV resistance and color fastness. Excellent flow for high surface quality appearance. High impact strength. UV-stabilized. Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-Terblend-S-NM-31-ASA-PA.php](http://www.lookpolymers.com/polymer_Styrolution-Terblend-S-NM-31-ASA-PA.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.5 % @Temperature 23.0 Â°C	1.5 % @Temperature 73.4 Â°F	50% RH; ISO 62
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ISO 294-4
Melt Flow	60 g/10 min @Load 10.0 kg, Temperature 240 Â°C	60 g/10 min @Load 22.0 lb, Temperature 464 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Elongation at Yield	3.3 %	3.3 %	ISO 527
Tensile Modulus	2.10 GPa	305 ksi	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup> @Temperature -30.0 Â°C	3.81 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 180/A
	65.0 kJ/m <sup>2</sup> @Temperature 23.0 Â°C	30.9 ft-lb/in <sup>2</sup> @Temperature 73.4 Â°F	ISO 180/A
Charpy Impact, Notched	0.900 J/cm <sup>2</sup> @Temperature -30.0 Â°C	4.28 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179

Mechanical Properties	Metric $\text{cm}^2$	English $\text{lb/in}^2$	Comments
	@Temperature 23.0 $^{\circ}\text{C}$	@Temperature 73.4 $^{\circ}\text{F}$	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m/m-}^{\circ}\text{C}$	55.6 $\mu\text{in/in-}^{\circ}\text{F}$	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	92.0 $^{\circ}\text{C}$	198 $^{\circ}\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	65.0 $^{\circ}\text{C}$	149 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	50 $^{\circ}\text{C/h}$ ; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	50 $^{\circ}\text{C/h}$ ; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+14$ ohm	$\geq 1.00\text{e}+14$ ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.018	0.018	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 270 $^{\circ}\text{C}$	464 - 518 $^{\circ}\text{F}$	ISO 294
Mold Temperature	40.0 - 80.0 $^{\circ}\text{C}$	104 - 176 $^{\circ}\text{F}$	ISO 294

## Contact Songhan Plastic Technology Co.,Ltd.

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