

# Terblend N NMX04

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

## TECHNICAL DATASHEET

### DESCRIPTION

Terblend N NMX04 is an ABS/PA blend developed for painted exterior applications. It provides high stiffness and enables first class paintability.

### FEATURES

- High stiffness
- Easy processing
- Paintable

### APPLICATIONS

- Exterior

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	35
Melt Volume Rate, 280 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	-
Melt Flow Rate, 250 °C/5 kg	ISO 1133	cm <sup>3</sup> /10 min	-
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	65
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	16
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	65
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m <sup>2</sup>	20
Charpy Unnotched, 23 °C	ISO 179	kJ/m <sup>2</sup>	nb
Charpy Unnotched, -30 °C	ISO 179	kJ/m <sup>2</sup>	nb
Tensile Stress at Yield, 23 °C	ISO 527	MPa	40
Tensile Strain at Yield, 23 °C	ISO 527	%	3.5
Tensile Strain at Break, 23 °C	ISO 527	%	> 50
Tensile Modulus	ISO 527	MPa	2000
Flexural Strength, 23 °C	ISO 178	MPa	60
Flexural Modulus, 23 °C	ISO 178	MPa	1800
Hardness, Rockwell	ISO 2039-2	R scale	103

# Terblend N NMX04

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

## TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Hardness, Ball Indentation	ISO 2039-1	MPa	86
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	97
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	150
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	72
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	97
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	100
<b>Electrical Properties</b>			
Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in)		-	2.9
Dissipation Factor (1 MHz)	IEC 60250	10 <sup>-4</sup>	150
Volume Resistivity	IEC 60093	Ohm*m	>1E13
Surface Resistivity	IEC 60093	Ohm	1E14
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1070
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	1.2
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.8
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	40 - 80