INEOS STYROLUTION

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
Rheological Properties			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm³/10 min	35
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2000
Tensile Stress at Yield, 23 °C	ISO 527	MPa	40
Tensile Strain at Yield, 23 °C	ISO 527	%	3.5
Nominal Strain at Break, 23 °C	ISO 527	%	> 50
Flexural Modulus, 23 °C	ISO 178	MPa	1800
Flexural Strength, 23 °C	ISO 178	MPa	60
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	65
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	20
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	65
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	16
Hardness, Ball Indentation	ISO 2039-1	MPa	86
Tensile Modulus after Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 527	MPa	1400
Tensile Stress at Yield after Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 527	MPa	32
Tensile Strain at Yield after Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 527	%	5.5
Nominal Strain at Break after Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 527	%	> 50

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Property, Test Condition	Standard	Unit	Values
Thermal Properties			
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
Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	100
Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	72
Heat Deflection Temperature B; (unannealed; 0.45 MPa)	ISO 75	°C	97
Electrical Properties			
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	2.9
Dissipation Factor (1 MHz)	IEC 62631-2-1	10^{-4}	150
Volume Resistivity	IEC 62631-3-1	Ohm*m	$>10^{13}$
Surface Resistivity	IEC 62631-3-1	Ohm	10^{14}
Other Properties			
Density	ISO 1183	kg/m³	1070
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	1.2
Processing			
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80 - 90
Drying Time	-	h	4 - 8
Molding shrinkage, free, longitudinal	-	%	0.7