

Terblend® N NG-04

Acrylonitrile Butadiene Styrene + Nylon

INEOS Styrolution Group GmbH

Message:

Terblend N NG-04 is a 20% glass fiber reinforced ABS/PA blend with high dimensional stability and rigidity.

General Information			
UL YellowCard	E108538-100840280		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	High Rigidity		
Uses	Automotive Applications		
	Housings		
Forms	Pellets		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/10.0 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	107	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.2	%	ISO 527-2
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	3.2	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m²	

23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	25	kJ/m ²	
23°C	30	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	5.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	164	°C	ISO 75-2/B
1.8 MPa, Annealed	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	180	°C	ISO 306/A50
--	114	°C	ISO 306/B50
CLTE - Flow	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	2.90		IEC 60250
Dissipation Factor (1 MHz)	0.013		IEC 60250
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	40.0 to 80.0	°C	

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