

Terblend® N 3158

Acrylonitrile Butadiene Styrene + Nylon

INEOS Styrolution Group GmbH

Message:

Terblend® N 3158 is an 9% mineral-filled ABS/PA blend with good dimensional stability, enhanced rigidity and excellent heat resistance, so that this grade can be applied for online-painting.

General Information			
Filler / Reinforcement	Mineral,9.0% Filler by Weight		
Features	Good Dimensional Stability		
	High Heat Resistance		
	High Rigidity		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage	1.1 to 1.4	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	3.0	%	
Break, 23°C	> 10	%	
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	> 10	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	160	kJ/m²	ISO 179
Notched Izod Impact Strength			ISO 180/A
-30°C	8.0	kJ/m²	
23°C	10	kJ/m²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Annealed	132	°C	ISO 75-2/B
1.8 MPa, Annealed	92.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	245	°C	ASTM D1525 ¹
--	160	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dissipation Factor			IEC 60250
100 Hz	7.5E-3		
1 MHz	0.015		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	270 to 290	°C	
Mold Temperature	80.0	°C	
Injection Velocity	40	mm/sec	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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