

Retelan® SF NERO

Acrylonitrile Butadiene Styrene

SO.F.TER. SPA

Message:

Retelan® SF NERO is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Europe, Latin America, or North America for injection molding.

Important attributes of Retelan® SF NERO are:

Flame Rated

REACH Compliant

General Information			
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage	0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	44.0	MPa	
Break	36.0	MPa	
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature			
--	105	°C	ASTM D1525 ¹
--	95.0	°C	ASTM D1525 ²
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength (1.60 mm)	30	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.10		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150

Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	190	°C	
Middle Temperature	210	°C	
Front Temperature	230	°C	
Mold Temperature	50.0 to 60.0	°C	
NOTE			
1.	Rate A (50°C/h), Loading 1 (10 N)		
2.	Rate A (50°C/h), Loading 2 (50 N)		

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