

Novalloy-A A2604

Acrylonitrile Butadiene Styrene + Nylon
PlastxWorld Inc.

Message:

Novalloy-A A2604 is an acrylonitrile butadiene styrene nylon (ABS nylon) material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-A A2604 are: flame retardant/rated flame.

General Information				
UL YellowCard		E47773-239580		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.50	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.70	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	116		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Yield)	94.0	71.0	MPa	ISO 527-2
Flexural Modulus	5300	3600	MPa	ISO 178
Flexural Stress	150	115	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	ISO 179/1eA
23°C	15	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ASTM D256
-30°C, 6.40 mm	100	--	J/m	ASTM D256
23°C, 6.40 mm	150	180	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, unannealed, 6.40mm	210	205	°C	ASTM D648
0.45 MPa, not annealed	210	205	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	180	165	°C	ASTM D648
1.8 MPa, not annealed	170	155	°C	ISO 75-2/A
Linear thermal expansion coefficient				ISO 11359-2
Flow	5.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	1.0E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method

Dielectric Strength (1.50 mm)	14	--	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	92.0	--	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6	--		ASTM D495
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Additional Information	Dry	Conditioned	Unit	
Moisture Content	--	1.1	%	
Injection	Dry	Unit		
Drying Temperature	90.0 - 100		°C	
Drying Time	4.0 - 5.0		hr	
Rear Temperature	180 - 210		°C	
Middle Temperature	230 - 250		°C	
Front Temperature	240 - 260		°C	
Nozzle Temperature	230 - 250		°C	
Mold Temperature	70.0 - 90.0		°C	
Back Pressure	10.0 - 20.0		MPa	
Screw Speed	50 - 80		rpm	

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