

Novalloy-A A1700

Acrylonitrile Butadiene Styrene + Nylon

PlastxWorld Inc.

Message:

Novalloy-A A1700 is an acrylonitrile butadiene styrene nylon (ABS nylon) material. This product is available in the Asia-Pacific region. The main characteristics of Novalloy-A A1700 are: flame retardant/rated flame.

General Information				
UL YellowCard		E47773-239570		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.80 - 1.1	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	109		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Yield)	50.0	33.0	MPa	ISO 527-2
Flexural Modulus	2200	960	MPa	ISO 178
Flexural Stress	74.0	42.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	ISO 179/1eA
23°C	16	40	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ASTM D256
-30°C, 6.40 mm	70	--	J/m	ASTM D256
23°C, 6.40 mm	160	440	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, unannealed, 6.40mm	105	99.0	°C	ASTM D648
0.45 MPa, not annealed	105	95.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	80.0	78.0	°C	ASTM D648
1.8 MPa, not annealed	70.0	70.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	--	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned		Test Method
Flame Rating	HB	--		UL 94
Additional Information	Dry	Conditioned	Unit	

Moisture Content	--	2.7	%
Injection	Dry	Unit	
Drying Temperature	90.0 - 100		°C
Drying Time	4.0 - 5.0		hr
Rear Temperature	180 - 210		°C
Middle Temperature	220 - 250		°C
Front Temperature	230 - 260		°C
Nozzle Temperature	220 - 250		°C
Mold Temperature	60.0 - 70.0		°C
Back Pressure	10.0 - 20.0		MPa
Screw Speed	60 - 90		rpm

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