

Novalloy-A A1300, A1300F

Acrylonitrile Butadiene Styrene + Nylon

Daicel Polymer Ltd.

Message:

Novalloy-A A1300, A1300F is an Acrylonitrile Butadiene Styrene + Nylon (ABS+Nylon) material. It is available in Asia Pacific. Primary attribute of Novalloy-A A1300, A1300F: Flame Rated.

General Information				
UL YellowCard	E47773-239568		E47773-239569	E47773-239587
Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 to 0.60	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	112	105		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Yield)	42.0	36.0	MPa	ISO 527-2
Flexural Modulus	2000	1600	MPa	ISO 178
Flexural Stress	65.0	53.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	
23°C	57	60	kJ/m ²	
Notched Izod Impact				ASTM D256
-30°C, 6.40 mm	150	--	J/m	
23°C, 6.40 mm	570	660	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed, 6.40 mm	97.0	93.0	°C	ASTM D648
0.45 MPa, Unannealed	97.0	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	90.0	84.0	°C	ASTM D648
1.8 MPa, Unannealed	80.0	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	--	1.6	%
Injection	Dry	Unit	
Drying Temperature	90.0 to 100		°C
Drying Time	4.0 to 5.0		hr
Rear Temperature	180 to 210		°C
Middle Temperature	220 to 250		°C
Front Temperature	230 to 260		°C
Nozzle Temperature	220 to 250		°C
Mold Temperature	60.0 to 70.0		°C
Back Pressure	10.0 to 20.0		MPa
Screw Speed	60 to 90		rpm

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