

Noveon® ZHF 82AT0 TPU

Type: Noveon® ZHF 82AT0 NAT021 is 82A aromatic Polyether-Based, Non-Halogen Flame Retardant, Thermoplastic Polyurethane (TPU) Compound

Feature: Soft, Matte finished, Good Flame Retardant Properties

Uses: Wire & Cable extrusion

Physical Properties	Value	Unit	Test Method
Hardness (3 sec)	82+/- 2	Shore A	ISO 868
Specific Gravity	1.13	g/mm ³	ISO 2781
Tensile Strength	24.5	Mpa	ISO 527
Ultimate Elongation	620	%	ISO 527
Modulus at			
50% Elongation	4.1	Mpa	
100% Elongation	4.9	Mpa	
300 % Elongation	8.2	Mpa	
Tear Strength(Die C)			
Nicked	50.1	KN/m	ISO 34-1B
Un-nicked	101.1	KN/m	ISO 34-1B
FR Property			
UL 94 vertical burn	V0	---	UL94

Remark: 1. Prior to testing, samples were conditioned at 23°C for 24 hours
2. Physical property test are based on 2mm molding plaques
3. Please be aware that the listed data is a "typical data" which should / can not be applied for specification purpose

Materials Preparation:

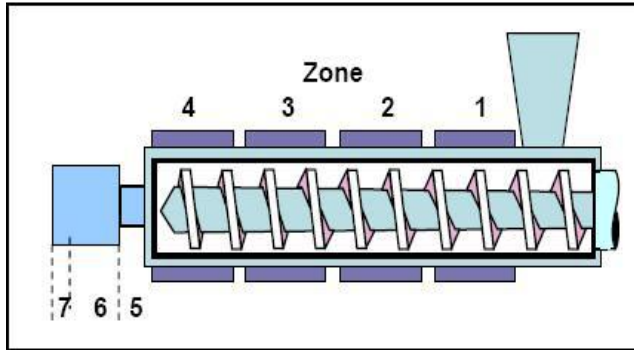
Prior to process, Noveon® ZHF 82AT0 NAT021 must be dried below 105°C for 3 hours. It is recommended to dry these materials in a dehumidifier, target dew point to be -30°C, preferable – 40°C.

Depending on the process technique, the maximum moisture content is recommended < 0.02%.

Process Condition:

Noveon® ZHF 82AT0 NAT021 is extruded on any conventional extruder equipped with a PVC , 3 stage or barrier type screw having an L/D ratio of 25:1 and a compression ratio of 3:1

Recommended extrusion temperature profile:



	°C
Hopper	Cooling
Zone 1	160
Zone 2	170
Zone 3	175
Zone 4	180
Adapter (5)	180
Die (6)	175
Dip tip (7)	170

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