

Noveon® ZHF 80AT3 TPU

Type: Noveon® ZHF 80AT3 NAT 022 is an 80A non halogen, flame retardant, aromatic Polyether-based thermoplastic polyurethane TPU.

Appearance: Transparent spherical pellets

Features: Zero Halogen

Uses: Wire and Cable

Physical Properties	Test Method	Unit	Value*
Hardness	ASTM D-2240	80	Shore A
Specific Gravity	ASTM D-792	1.12	
Tensile Strength	ASTM D-412	6670	psi
Ultimate Elongation	ASTM D-412	600	%
Tensile Set	ASTM D-412	20	%
Compression Set	ASTM D-395	20	
Tg (°F by DSC)		-36	
Vicat (°F)	ASTM D-1525	194	
Taber (H-18, 1000g)	ASTM D-3389	.012	
Flame Rating	UL-94	V-2 (75 mil)	
LOI	%	25	

- Extruded Strips: 1mm thickness
- Please be aware that listed values are "typical (average) values" and should / can not be applied for specification purposes.

Materials Preparation

Prior to processing, Noveon® ZHF 80AT3 TPU must be dried at 100°C during 3 hours. It is recommended to dry the material in a dehumidifying type dryer. Target dew points to be below -30°C, preferably -40°C.

Depending on the applied processing technique, following maximum moisture levels are recommended.

- Cable Extrusion.....<0.05%

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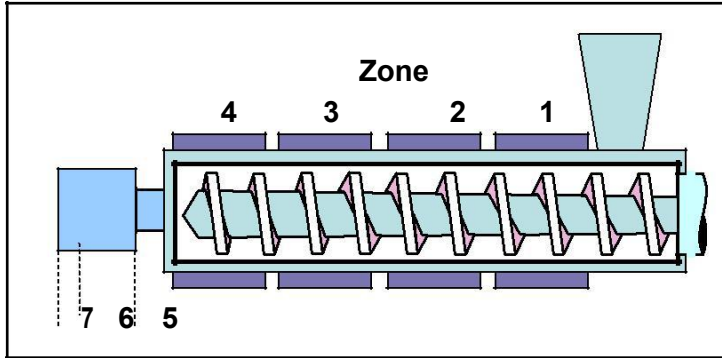
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Processing Conditions

Noveon[®] ZHF 80AT3 TPU 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	Yes
Zone 1	185
Zone 2	185
Zone 3	190
Zone 4	185
Adapter (5)	185
Die (6)	180
Dip tip (7)	180