

Type: **Noveon® ZHF95AT3 TPU** is a zero halogen flame retardant polyether based thermoplastic polyurethane compound.

Features: Outstanding Flame Retardant Properties; Especially Suited for Tray Cables

Uses: Cable Jacket & Hose and Tube and Injection Molding & Fabric Coating

Physical Properties	Value	Unit	Test Method
Hardness (5 sec)	95	Shore A	ASTM D2240
Specific Gravity	1.24		ASTM D792
Tensile Strength	2000 (13.7)	psi (MPa)	ASTM D412
Ultimate Elongation	360	%	"
Tensile Stress at			
- 100 % Elongation	1400 (9.6)	psi (MPa)	ASTM D412
- 300 % Elongation	1800 (12.4)	psi (MPa)	"
Tear Strength			
Graves	340 (6)	lb/in (kg/mm)	ASTM D624 (die C)
Trouser	90 (1.6)	lb/in (kg/mm)	ASTM D470
Taber Loss (1000 rev)	0.0106 (300)	oz (mg)	ASTM D3389 (H18, 1000g)
T <sub>m</sub> (by DSC)	350 (175)	°F (°C)	C& J Advanced Materials
T <sub>g</sub> (by DSC)	-34 (-30)	°F (°C)	C& J Advanced Materials

#### Supply Form and Standard Packaging

- 25kg/bag

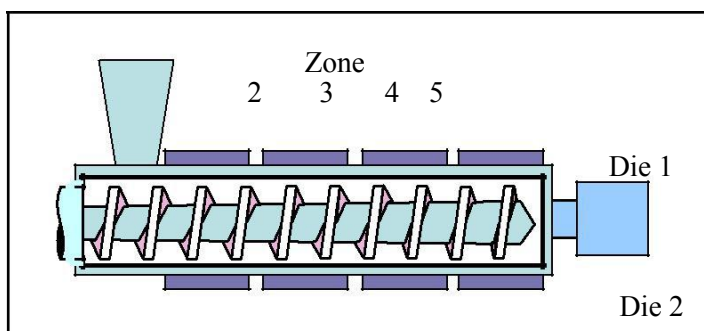
#### Material Preparation

- Prior to processing, **Noveon® ZHF95AT3 TPU** must be dried at 180°F (82°C) for 2-4 hours.
- It is recommended to dry the material in a desiccant type dryer. Target dew point should be -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

#### Processing Conditions

- **Noveon® ZHF95AT3 TPU** can be processed on any conventional extruder.

Recommended Starting Extrusion Temperature Profile:



	°F/°C
Zone 1	320/160
Zone 2	330/165
Zone 3	340/170
Zone 4	350/175
Adapter (5)	360/180
Die Zone 1 (6)	360/180
Die Zone 2	360/180

**Noveon® ZHF95AT3 TPU** zero halogen flame retardant TPU for high flame performance cable jacket

Application Properties	Value	Unit	Test Method
Limiting Oxygen Index	38	N/A	ASTM D2863
UL 94 Vertical Flame Test, 75 mils (1.9 mm)	V-0	N/A	ASTM D3801
Surface Resistivity	$5.6 \times 10^{14}$	$\Omega/\text{sq}$	ASTM D257
Volume Resistivity	$5.6 \times 10^{12}$	$\Omega.\text{cm}$	ASTM D257
Insulation Resistance	$2.9 \times 10^{10}$	$\Omega$	ASTM A717
Dissipation Factor			ASTM D2520
@ 1 kHz	0.04		
@ 1 MHz	0.05		
Dielectric Constant			ASTM D2520
@ 1 kHz	4.5		
@ 1 MHz	5.7		
Ross Flex	No Cut Growth		ASTM D257
Air Oven, 7 days, 113°C		%	ASTM D412
Strength Retention	85		
Elongation Retention	90		
Air Oven, 7 days, 121°C		%	ASTM D412
Strength Retention	75		
Elongation Retention	90		
IRM 902 Oil, 7 Days, 100°C		%	ASTM D412
Strength Retention	100		
Elongation Retention	80		

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