

Type: Noveon[®] ZHF 90AT0 TPU is a clear, glossy, zero halogen flame retardant polyether based thermoplastic polyurethane compound.

Features: Outstanding TPU Properties

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

Physical Properties	Value	Unit	Test Method
Hardness (5 sec)	91	Shore A	ASTM D2240
Specific Gravity	1.16		ASTM D792
Tensile Strength	6750 (47)	psi (MPa)	ASTM D412
Ultimate Elongation	400	%	"
Tensile Stress at			
- 100 % Elongation	1500 (10)	psi (MPa)	ASTM D412
- 300 % Elongation	4200 (29)	psi (MPa)	"
Tear Strength			
Graves	583 (10.2)	lb/in (kg/mm)	ASTM D624 (die C)
Trouser	144 (2.5)	lb/in (kg/mm)	ASTM D470
Taber Loss (1000 rev)	0.0019 (54)	oz (mg)	ASTM D3389 (H18, 1000g)
T _m (by DSC)	342 (172)	°F (°C)	C & J Advanced Materials
T _g (by DSC)	-36 (-38)	°F (°C)	C & J Advanced Materials

Supply Form and Standard Packaging

Noveon[®] ZHF90AT0 TPU is supplied in pellet form and packaged in 25kg/ bag

Material Preparation

Prior to processing, Noveon[®] ZHF90AT0 TPU must be dried at 180°F (82°C) for 2-4 hours.

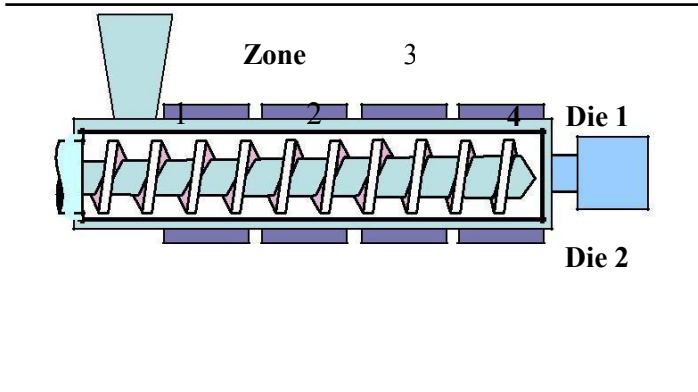
It is recommended to dry the material in a desiccant type dryer. Target dew point should be -40°C.

Depending on the applied processing technique, the maximum moisture level should be 0.02%.

Processing Conditions

Noveon[®] ZHF90AT0 TPU can be processed on any conventional extruder.

Recommended Starting Extrusion Temperature Profile:



	°F/°C
Zone 1	355/180
Zone 2	365/185
Zone 3	375/190
Zone 4	385/195
Adapter (5)	395/195
Die Zone 1	400/205
Die Zone 2	400/205

Noveon® ZHF 90AT0 TPU

Application Properties	Value	Unit	Test Method
UL 94 Vertical Flame Test, 30 mils (0.76 mm)	V-2	N/A	ASTM D3801
RT Burst Pressure	630 (4.3)	psi (MPa)	ISO 7628/1

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