

noveon

THERMOPLASTIC POLYURETHANES

Technical Data Sheet

Noveon[®] ZHF78AT3TPU

Type : Noveon[®] ZHF78AT3 is aromatic polyether-based NHFR thermoplastic polyurethane.

Appearance : Transparent cylindrical pellets.

Application : Cable and tube Extrusion

| MECHANICAL PROPERTIES | TEST METHOD | UNIT | VALUE* |
|-----------------------|-------------------|-------------------|--------|
| Hardness (3s) | ISO 868 | SHORE A | 78A |
| Specific Gravity | ISO 2781 | g/cm ³ | 1.13 |
| Tensile Strength | ISO 37 | MPa | 32 |
| Ultimate Elongation | | % | 730 |
| Tensile stress at | S1 type dumbbells | | |
| - 50% Elongation | Speed=500mm/min | MPa | 3.6 |
| - 100% Elongation | | MPa | 4.4 |
| - 300% Elongation | | MPa | 7.3 |
| Tear Resistance | ISO 34 | kN/m | 135 |
| Flammability | UL-94 | | V0 |

Specimen: injection molded plaques in 2mm thickness.

Supply form and standard packaging

Noveon[®] ZHF78AT3 is supplied in pellet form and is packaged in polyethylene bags. Net weight 25kg.

*Please be aware that listed values are “typical (average) values” and should / can not be applied for specification purposes.

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Material Preparation

Prior to processing, **Noveon® ZHF78AT3** must be dried at 100°C during 4 hours.

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

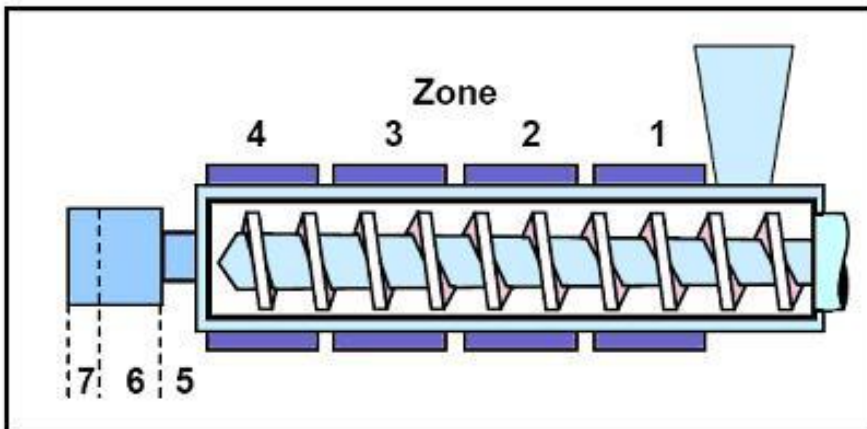
Depending on the applied processing technique, following maximum moisture levels are recommended.

Cable and tubing extrusion..... 0.05%

Processing Conditions

Noveon® ZHF78AT3 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 | yes |
| Zone 1 | 150 |
| Zone 2 | 160 |
| Zone 3 | 170 |
| Zone 4 | 185 |
| Adapter (5) | 185 |
| Die (6) | 185 |
| Die tip (7) | 180 |