

PRODUCT DATA SHEET

Apilon 52 T L 40

apilon 52^{AP}

ETHER BASED TPU

Main features:

Transformation technology:

Pre-drying:

Recycling:

Hydrolysis, microbial and low temperature resistance

Injection Moulding

Pre-drying is required (2 hours at 70 ÷ 80 °C)

Regrinded material can be easily mixed with virgin product. Dry regrind prior to reprocessing. Recycling is not allowed for critical applications

Properties	Method	Unit	Result
Density	ASTM D 792	g/cm ³	1,14
Hardness 15"	ASTM D 2240	Shore A	89
Tear Strength (without notch)	ASTM D 624	KN/m	89
Tensile Modulus 100 % elongation	ASTM D 638	MPa	7,6
Tensile Modulus 300 % elongation	ASTM D 638	MPa	12,8
Tensile Strength	ASTM D 638	MPa	28,3
Elongation at break (mould direction)	ASTM D 638	%	515

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Processing

Optimum processing conditions depend on such features as machine size, screw design, mould design and material residence time.

Injection Moulding

Typical conditions are:

Injection pressure: Medium

Back pressure: Medium - Low

Injection speed: Medium - Low

Temperature settings (°C):

Zone A 165 ÷ 175

Zone B 170 ÷ 180

Zone C 175 ÷ 195

Zone D 180 ÷ 200

Zone E 30 ÷ 50

