#### API APPLICAZIONI PLASTICHE INDUSTRIALI S.p.A.

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apilon 52®

#### PRODUCT DATA SHEET

# Apilon 52 T L 40

ETHER BASED TPU

Recycling:

Main features: Hydrolysis, microbial and low temperature resistance

Transformation technology: Injection Moulding

**Pre-drying:** 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 <sup>3</sup>	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	

Revision date: 17/09/07

### **Processing**

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

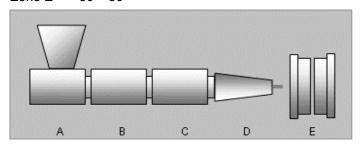
## **Injection Moulding**

## 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



The information supplied above is given in good faith and is accurately based on test results. However, we recommend that the procedures suggested, which may be updated from time to time, are tested to ensure that they are suitable for your specific application. API Spa does not guarantee results and assumes no obligation or responsibility whatsoever in respect of the information provided. Furthermore API Spa refuses to acknowledge any use which violates existing patents.