# apilon 52® D1 40

### Thermoplastic Polyurethane Elastomer (Polyester)

#### API SpA

#### Message:

apilon 52®D1 40 is a thermoplastic polyurethane elastomer (polyester)(TPU-polyester) product. It can be processed by injection molding and is available in Europe. apilon 52®The application areas of D1 40 include engineering/industrial accessories, electrical/electronic applications, electrical appliances, tools and home applications.

Features include: high liquidity environmental protection/green Good UV resistance low temperature resistance

General Information					
Features	Good UV resistance				
	Recyclable materials				
	High liquidity				
	Low temperature resistance				
	Hydrolysis resistance				
Uses	Handle				
	Wheels				
	Conveyor belt repair				
	Electrical/Electronic Applications				
	Electrical appliances				
	Washer				
	Power/other tools				
	Pipe fittings				
	Household goods				
	Sporting goods				
	Coating application				
	Footwear				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.20	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shaw A, 15 seconds	89		ASTM D2240		
Shaw D, 3 seconds	42		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength			ASTM D638		

	45.0	МРа	ASTM D638
100% strain	6.50	MPa	ASTM D638
300% strain	13.0	MPa	ASTM D638
Tensile Elongation (Break)	530	%	ASTM D638
Flexural Modulus (23°C)	35.0	MPa	ASTM D790
Abrasion Resistance	30.0	mm³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>1</sup>	105	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C)	No Break		ASTM D256
Injection	Nominal Value	Unit	
Drying Temperature	80 - 100	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.070	%	
Rear Temperature	180 - 190	°C	
Middle Temperature	185 - 200	°C	
Front Temperature	190 - 215	°C	
Nozzle Temperature	200 - 230	°C	
Mold Temperature	30 - 60	°C	
Injection Pressure	50.0 - 100	МРа	
Injection Rate	Slow-Moderate		
NOTE			
1.	With Notch		

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#### Recommended distributors for this material

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