

apilon 52® D-40L

Thermoplastic Polyurethane Elastomer (Polyester)

API SpA

Message:

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

- Features include:
- environmental protection/green
 - Good processability
 - Rapid Prototyping Cycle
 - Good UV resistance
 - low temperature resistance

General Information			
Features	Good UV resistance		
	Recyclable materials		
	Workability, good		
	Fast molding cycle		
	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		
Processing Method	Injection molding		
	Physical	Nominal Value	Unit
	Specific Gravity	1.21	g/cm³
	Hardness	Nominal Value	Unit
	Durometer Hardness		ASTM D2240
	Shaw A, 15 seconds	90	ASTM D2240
	Shaw D, 3 seconds	38	ASTM D2240
	Mechanical	Nominal Value	Unit
			Test Method

Tensile Strength			ASTM D638
--	35.0	MPa	ASTM D638
100% strain	5.50	MPa	ASTM D638
300% strain	12.0	MPa	ASTM D638
Tensile Elongation (Break)	630	%	ASTM D638
Abrasion Resistance	30.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	92.0	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	MPa	
Injection Rate	Slow-Moderate		
NOTE			
1.	With Notch		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT