apilon 52® TLE 50

Thermoplastic Polyurethane Elastomer (Polyether)

API SpA

Message:

apilon 52®TLE 50 is a thermoplastic polyurethane elastomer (polyether)(TPU-polyether) product. It can be processed by extrusion and is available in Europe. apilon 52® The application areas of TLE 50 include engineering/industrial accessories, electrical/electronic applications, electrical appliances, tools and home applications.

Features include: environmental protection/green low temperature resistance chemical resistance Wear-resistant

General Information							
Features	Antimicrobial						
	Recyclable materials						
	Good wear resistance						
	Low temperature resistance						
	Hydrolysis resistance						
	Oil 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		
	Forms	Particle					
Processing Method	Extrusion						
Physical	Nominal Value	Unit	Test Method				
Specific Gravity	1.15	g/cm³	ASTM D792				
Hardness	Nominal Value	Unit	Test Method				
Durometer Hardness (Shore D, 3 sec)	50		ASTM D2240				
Mechanical	Nominal Value	Unit	Test Method				
Tensile Strength			ASTM D638				

	35.0	MPa	ASTM D638
100% strain	11.0	MPa	ASTM D638
300% strain	20.0	MPa	ASTM D638
Tensile Elongation (Break)	450	%	ASTM D638
Flexural Modulus	110	MPa	ASTM D790
Abrasion Resistance	50.0	mm³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	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	80.0 - 110	°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	30.0 - 60.0	°C	
Injection Pressure	50.0 - 100	MPa	
Injection Rate	Slow-Moderate		
Injection instructions			
Back Pressure: Medium to LowLocking	g Pressure: High		
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 110	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.070	%	
Cylinder Zone 1 Temp.	160 - 185	°C	
Cylinder Zone 2 Temp.	170 - 200	°C	
Cylinder Zone 3 Temp.	175 - 210	°C	
Cylinder Zone 4 Temp.	180 - 220	°C	
Die Temperature	170 - 210	°C	
Extrusion instructions			
L/D Ratio: 20:1 to 30:1Compression Ra	atio: 1:2.5 to 1:3		
NOTE			

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Without Notch

Recommended distributors for this material

1.

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