

apilon 52® D1 45

Thermoplastic Polyurethane Elastomer (Polyester)

API SpA

Message:

apilon 52®D1 45 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 45 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		
Processing Method	Injection molding		
Physical		Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792
Hardness		Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	45		ASTM D2240
Mechanical		Unit	Test Method
Tensile Strength			ASTM D638
--	48.0	MPa	ASTM D638
100% strain	9.00	MPa	ASTM D638

300% strain	16.0	MPa	ASTM D638
Tensile Elongation (Break)	530	%	ASTM D638
Flexural Modulus (23°C)	50.0	MPa	ASTM D790
Abrasion Resistance	30.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	120	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		

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