

apilon 52® MA-6505

Thermoplastic Polyurethane Elastomer (Polyester)

API SpA

Message:

apilon 52®MA-6505 is a thermoplastic polyurethane elastomer (polyester)(TPU-polyester) product. It can be processed by injection molding and is available in Europe. apilon 52®MA-6505 applications include engineering/industrial accessories, electrical/electronic applications, electrical appliances, tools and home applications.

Features include:

- high liquidity
- environmental protection/green
- Good flexibility
- low temperature resistance

General Information			
Features	Recyclable materials		
	Good flexibility		
	High liquidity		
	Low temperature 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	Footwear		
	Injection molding		
	Physical	Nominal Value	Unit
	Test Method		
	Specific Gravity	1.17	g/cm ³
	ASTM D792		
	Hardness	Nominal Value	Unit
	Test Method		
	Durometer Hardness (Shore A, 15 sec)	68	
	ASTM D2240		
	Mechanical	Nominal Value	Unit
	Test Method		
	Tensile Strength		ASTM D638
	--	20.0	MPa
	ASTM D638		
	100% strain	2.50	MPa
	ASTM D638		
	300% strain	4.00	MPa
	ASTM D638		

Tensile Elongation (Break)	800	%	ASTM D638
Abrasion Resistance	60.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	60.0	kN/m	ASTM D624
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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Recommended distributors for this material

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