

apigo® P 50

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo® P 50 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo® The application areas of P 50 include consumer goods, electrical appliances, engineering/industrial accessories, home applications and construction applications.

Features include:

- chemical resistance
- environmental protection/green
- Good processability
- Rapid Prototyping Cycle
- low temperature resistance

General Information			
Features	Recyclable materials		
	Workability, good		
	Fast molding cycle		
	Low temperature resistance		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
Uses	overmolding		
	Electrical appliances		
	Household goods		
	Architectural application field		
	Application in Automobile Field		
	Sporting goods		
	Toys		
Appearance	Footwear		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	55	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
--	4.70	MPa	ASTM D638
100% strain	1.30	MPa	ASTM D638
300% strain	1.80	MPa	ASTM D638
Tensile Elongation (Break)	840	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	22.0	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	150 - 170	°C	
Middle Temperature	160 - 180	°C	
Front Temperature	170 - 190	°C	
Nozzle Temperature	180 - 200	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Injection Pressure: HighBack Pressure: MediumLocking Pressure: High			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 - 180	°C	
Cylinder Zone 2 Temp.	160 - 190	°C	
Cylinder Zone 3 Temp.	170 - 190	°C	
Cylinder Zone 4 Temp.	180 - 190	°C	
Extrusion instructions			
L/D Ratio: >20:1Compression Ratio: 1:2.5 to 1:3			
NOTE			
1.	Without Notch		

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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



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