

apigo® P 70

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo® P 70 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 70 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
	Footwear
Appearance	Available colors
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
--	8.40	MPa	ASTM D638
100% strain	3.00	MPa	ASTM D638
300% strain	3.60	MPa	ASTM D638
Tensile Elongation (Break)	830	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	41.0	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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