apigo® 9121/70

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo®9121/70 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo®9121/70 applications 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
Agency Ratings	FDA not rated
Appearance	Available colors
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	120	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
--	4.40	MPa	ASTM D638
100% strain	2.50	MPa	ASTM D638
300% strain	3.20	MPa	ASTM D638
Tensile Elongation (Break)	560	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [1]	24.0	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		

Recommended distributors for this material

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