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	

MechanicalNominal ValueTensile Strength4.40100% strain2.50300% strain3.20Tensile Elongation (Break)560ElastomersNominal ValueTear Strength 124.0	Unit MPa MPa MPa MPa % Unit Unit Unit	Test Method ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D638 Test Method ASTM D624
4.40 100% strain 2.50 300% strain 3.20 Tensile Elongation (Break) 560 Elastomers Nominal Value	MPa MPa % Unit kN/m Unit	ASTM D638 ASTM D638 ASTM D638 ASTM D638 Test Method
100% strain2.50300% strain3.20Tensile Elongation (Break)560ElastomersNominal Value	MPa MPa % Unit kN/m Unit	ASTM D638 ASTM D638 ASTM D638 Test Method
300% strain3.20Tensile Elongation (Break)560ElastomersNominal Value	MPa % Unit kN/m Unit	ASTM D638 ASTM D638 Test Method
Tensile Elongation (Break)560ElastomersNominal Value	% Unit kN/m Unit	ASTM D638 Test Method
Elastomers Nominal Value	Unit kN/m Unit	Test Method
	kN/m Unit	
Tear Strength ¹ 24.0	Unit	ASTM D624
Injection Nominal Value		
Rear Temperature150 - 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: HighBack Pressure: MediumLocking Pressure: HighBack Pressure: HighBack Pressure: MediumLocking Pressure: HighBack Pressure: HighBack Pressure: MediumLocking Pressure: HighBack Pressure:	igh	
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

