apigo® CA 450

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo ® CA 450 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo ® CA 450 applications include consumer goods, electrical appliances, home applications, construction applications and the automotive industry.

Features include: chemical resistance environmental protection/green Good processability Rapid Prototyping Cycle low temperature resistance

General Information					
Features	Stress whitening				
	Recyclable materials				
	Workability, good				
	Fast molding cycle				
	Low temperature resistance Good chemical resistance				
	acid resistance				
		Definition, high			
Uses	Electrical appliances				
	Household goods				
	Architectural application field				
	Application in Automobile Field				
	Sporting goods				
	Toys				
	Footwear				
Appearance	Available colors				
	Clear/transparent				
Forms	Particle				
Processing Method	Extrusion				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	0.900	g/cm³	ASTM D792		

M I M E			
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
	18.0	MPa	ASTM D638
100% strain	14.0	MPa	ASTM D638
300% strain	13.6	MPa	ASTM D638
Tensile Elongation (Break)	690	%	ASTM D638
Flexural Modulus (23°C)	450	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	150	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	80	J/m	ASTM D256
23°C	No Break		ASTM D256
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: Med	iumLocking 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	o 1:3		
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Without Notch

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