

# apigo® 8376 BS/70

Thermoplastic Polyolefin Elastomer

API SpA

## Message:

apigo® 8376 BS/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 fields of 8376 BS/70 include consumer goods, electrical appliances, home applications, construction applications and automobile industries.

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	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	1.11	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	6.0	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

--	7.30	MPa	ASTM D638
100% strain	2.20	MPa	ASTM D638
300% strain	2.90	MPa	ASTM D638
Tensile Elongation (Break)	870	%	ASTM D638
<b>Elastomers</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tear Strength <sup>1</sup>	31.0	kN/m	ASTM D624
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
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		
<b>Injection instructions</b>			
Injection Pressure: HighBack Pressure: MediumLocking Pressure: High			
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
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	
<b>Extrusion instructions</b>			
L/D Ratio: >20:1Compression Ratio: 1:2.5 to 1:3			
<b>NOTE</b>			
1.	Without Notch		

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