apigo® D 47T

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo®D 47T 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 D 47T 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			
	alkali 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/cm ³	ASTM D792	
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Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	40	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	47		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
	13.0	MPa	ASTM D638
100% strain	10.5	MPa	ASTM D638
300% strain	10.8	MPa	ASTM D638
Tensile Elongation (Break)	540	%	ASTM D638
Flexural Modulus (23°C)	240	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	82.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	140	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: Me	diumLocking 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		

1.

Without Notch

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