apigo® 9160 NL/90

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo®9160 NL/90 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo®9160 NL/90 applications include consumer goods, electrical appliances, engineering/industrial accessories, home applications and construction applications.
Features include:
chemical resistance
high liquidity
environmental protection/green
Good processability
Rapid Prototyping Cycle

General Information	
Features	Recyclable materials
	Workability, good
	Fast molding cycle
	Good flexibility
	High liquidity
	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
Appearance	Opacity
	Available colors
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792

Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	45	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	90		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
--	7.00	MPa	ASTM D638
100% strain	3.20	MPa	ASTM D638
300% strain	4.20	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [1]	43.0	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	
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

Susheng Import & Export Trading Co.,Ltd.

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