

apigo® DP 0728 UVR

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo® DP 0728 UVR is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo® DP 0728 UVR 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	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	0.890	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	49		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
--	12.4	MPa	ASTM D638
100% strain	8.90	MPa	ASTM D638
300% strain	9.50	MPa	ASTM D638
Tensile Elongation (Break)	480	%	ASTM D638
Flexural Modulus (23°C)	145	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	90.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-35°C	130	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: High Back Pressure: Medium Locking 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: >20:1 Compression Ratio: 1:2.5 to 1:3			
NOTE			
1.	Without Notch		

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