

apinat® DP1888

Biodegradable Polymers

API SpA

Message:

apinat®DP1888 is a biodegradable polymer (Biodeg Polymers) product. It is available in Europe. The main features are: environmental protection/green.

General Information			
Features	Biodegradable		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15 - 1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	57		ASTM D2240
Shaw D	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.30 - 24.8	MPa	ASTM D638
Tensile Elongation (Break)	520 - 890	%	ASTM D638
Abrasion Resistance	30.0 - 250	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	30.0 - 124	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	110 - 130	°C	
Middle Temperature	120 - 140	°C	
Front Temperature	120 - 140	°C	
Nozzle Temperature	120 - 145	°C	
Mold Temperature	25.0 - 40.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Injection Pressure: MediumBack Pressure: Medium/Low			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	110 - 130	°C	
Cylinder Zone 2 Temp.	120 - 140	°C	
Cylinder Zone 3 Temp.	125 - 155	°C	
Cylinder Zone 4 Temp.	130 - 160	°C	
Cylinder Zone 5 Temp.	135 - 155	°C	
Extrusion instructions			

L/D ratio: 24:1Compression Screw Ratio: 2.3:1Screw Speed: 50 rpm

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