

apinat® DP2091

Biodegradable Polymers

API SpA

Message:

apinat®DP2091 is a biodegradable polymer (Biodeg Polymers) product. It is available in Europe. The main features are: environmental protection/green.

General Information			
Features		Updatable resources	
		Biodegradable	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	17.6	MPa	ASTM D638
Tensile Elongation (Break)	54	%	ASTM D638
Flexural Modulus	720	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	100	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	150 - 160	°C	
Middle Temperature	165 - 175	°C	
Front Temperature	175 - 185	°C	
Nozzle Temperature	190 - 200	°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.	150 - 160	°C	
Cylinder Zone 2 Temp.	160 - 170	°C	
Cylinder Zone 3 Temp.	170 - 180	°C	
Cylinder Zone 4 Temp.	180 - 190	°C	
Cylinder Zone 5 Temp.	175 - 185	°C	
Extrusion instructions			
L/D ratio: 24:1Compression Screw Ratio: 2.3:1Screw Speed: 50 rpm			

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