

apinat® DP2165

Biodegradable Polymers

API SpA

Message:

apinat®DP2165 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)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	23.5	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Flexural Modulus	240	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	114	kN/m	ASTM D624
Injection	Nominal Value	Unit	
Rear Temperature	130 - 140	°C	
Middle Temperature	140 - 150	°C	
Front Temperature	150 - 160	°C	
Nozzle Temperature	160 - 180	°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.	130 - 140	°C	
Cylinder Zone 2 Temp.	140 - 150	°C	
Cylinder Zone 3 Temp.	150 - 160	°C	
Cylinder Zone 4 Temp.	160 - 180	°C	
Cylinder Zone 5 Temp.	150 - 170	°C	
Extrusion instructions			
L/D ratio: 24:1Compression Screw Ratio: 2.3:1Screw Speed: 50 rpm			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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