

# apinat® DP2289

Biodegradable Polymers

API SpA

## Message:

apinat®DP2289 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 - 1.25   | g/cm³               | ASTM D792   |
| Hardness                                                         | Nominal Value | Unit                | Test Method |
| Durometer Hardness (Shore D)                                     | 70 - 77       |                     | ASTM D2240  |
| Mechanical                                                       | Nominal Value | Unit                | Test Method |
| Tensile Strength (Break)                                         | 25.0 - 45.0   | MPa                 | ASTM D638   |
| Tensile Elongation (Break)                                       | 3.0 - 50      | %                   | ASTM D638   |
| Flexural Modulus                                                 | 2440          | MPa                 | ASTM D790   |
| Elastomers                                                       | Nominal Value | Unit                | Test Method |
| Tear Strength                                                    | 90.0 - 150    | kN/m                | ASTM D624   |
| Injection                                                        | Nominal Value | Unit                |             |
| Rear Temperature                                                 | 160 - 170     | °C                  |             |
| Middle Temperature                                               | 170 - 180     | °C                  |             |
| Front Temperature                                                | 185 - 195     | °C                  |             |
| Nozzle Temperature                                               | 195 - 210     | °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.                                            | 160 - 170     | °C                  |             |
| Cylinder Zone 2 Temp.                                            | 170 - 180     | °C                  |             |
| Cylinder Zone 3 Temp.                                            | 180 - 190     | °C                  |             |
| Cylinder Zone 4 Temp.                                            | 190 - 200     | °C                  |             |
| Cylinder Zone 5 Temp.                                            | 185 - 195     | °C                  |             |
| Extrusion instructions                                           |               |                     |             |
| L/D ratio: 24:1Compression Screw Ratio: 2.3:1Screw Speed: 50 rpm |               |                     |             |

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