

# apifive® DP1171/1/270

Polyolefin

API SpA

## Message:

apifive®DP1171/1/270 is a polyolefin product. It can be processed by injection molding and is available in Europe. Typical application areas are: consumer goods. The main characteristics are: crosslinkable.

General Information			
Features	Crosslinkable		
Uses	Footwear		
Appearance	Opacity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.200	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	22		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2.10	MPa	ASTM D638
Tensile Elongation (Break)	280	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	7.00	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 24 hr	26	%	ASTM D395
50°C, 6 hr	75	%	ASTM D395
Additional Information			
Heat Stability, API Method, 24 hr, 70°C: 3.8 % ShrinkageHeat Stability, API Method, 40 hr, 70°C: 1 % ShrinkageHardness, Asker C, 15 sec: 45Linear Expansion: 1.55			
Injection	Nominal Value	Unit	
Hopper Temperature	90.0 - 100	°C	
Processing (Melt) Temp	90.0 - 105	°C	
Mold Temperature	175 - 185	°C	
Injection Pressure	8.00 - 10.0	MPa	
Back Pressure	0.00 - 2.00	MPa	
Screw L/D Ratio	18.0:1.0 to 20.0:1.0		
Injection instructions			

Injection Speed: 6-15 g/secMold in AluminumCycle Time: 5 to 7 minFree nozzle (without valve)Max locking pressure: 20 MPa

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