

Arnitel® PB420

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® PB420 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Asia Pacific, Europe, or North America for blow molding.

General Information			
Uses	Blow Molding Applications		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	10.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	38		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	70.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	19.0	MPa	
5.0% Strain	3.70	MPa	
10% Strain	6.20	MPa	
50% Strain	12.2	MPa	
100% Strain	16.0	MPa	
Nominal Tensile Strain at Break	170	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Melting Temperature ¹	210	°C	ISO 11357-3
NOTE			
1.	10°C/min		

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