

Pibiflex® 5612 NATURALE

Thermoplastic Copolyester Elastomer

SO.F.TER. SPA

Message:

TPC grade with medium flexural modulus

General Information			
Features	General Purpose		
	Good Stiffness		
Uses	General Purpose		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.52	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	35.0	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	260	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	73.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	155	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	130	J/m	
23°C	800	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature	188	°C	ASTM D1525 ²
Peak Melting Temperature	208	°C	ASTM D3417
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.0E+13	ohms · cm	

100°C	1.0E+12	ohms·cm	
Dielectric Strength (2.00 mm)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	3.80		
100 kHz	3.70		
Dissipation Factor			ASTM D150
1 kHz	0.011		
100 kHz	0.024		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	20	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Fatigue Resistance	6/50	kCycles	ASTM D1052
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0	hr	
Rear Temperature	180	°C	
Middle Temperature	210	°C	
Front Temperature	220	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	Die C		
2.	Rate B (120°C/h), Loading 1 (10 N)		

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