

Pibiflex® 7212 NATURALE

Thermoplastic Copolyester Elastomer

SO.F.TER. SPA

Message:

TPC grade with high flexural modulus

General Information			
Features	General Purpose		
	High 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	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	14	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	420	%	ASTM D638
Flexural Modulus	640	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	215	°C	ASTM D3417
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.0E+14	ohms · cm	
100°C	1.0E+13	ohms · cm	
Dielectric Strength (2.00 mm)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.85		
100 kHz	2.75		
Dissipation Factor			ASTM D150
1 kHz	2.9		
100 kHz	0.013		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	22	%	ASTM D2863

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	3.0	hr
Rear Temperature	220	°C
Middle Temperature	240	°C
Front Temperature	250	°C
Mold Temperature	50.0 to 70.0	°C

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