





## Dexnyl© PEI SF\_25

## **Technical Datasheet**

S/N	Test Item	Test Standard	Condition	Unit	Dexnyl© PEI SF
4	General	Color	-	-	natural (amber-tranlucent)
1	Property	Density	1183	g/cm <sup>3</sup>	1.27
2	Hydroscopicity	Soak in the Water for 24 hrs or 96 hrs (23℃)	62	mg	0.26/0.54
		Linked in the air (23°C/50% RH)	-	%	0.75
		Soak in the Water (23℃)	-	%	1.35
3	Thermal Performance	Melting Point	-	$^{\circ}$ C	-
		Glass Transition(TG)	-	$^{\circ}\!$	215
		Thermal conductivity (at 23℃)	-	W/(K.m)	0.22
4	Coefficient of	Average (23-100°C)	-	m/(m.K)	45×10 <sup>-6</sup>
	Thermal	Average (23-150°C)	-	m/(m.K)	45×10 <sup>-6</sup>
	Expansion	Average (Above 150°C)	-	m/(m.K)	45×10 <sup>-6</sup>
5	Heat Deflection Temperature	Method A: 1.8MPa	75	$^{\circ}$	190
	Maximum	Short Time	-	$^{\circ}$ C	200
6	Working Temperature in the Air	Continuity: at least20, 000	-	°C	170
7	Flammability	Oxygen Index	4589	%	47
,	Traininability	Bending tensile	4000		
8	Mechanical Property (23℃)	stress/Breaking tensile stress	527	Мра	105/-
	Stress Test	Breaking Tensile strain	527	%	10
		Tensile modulus of elasticity	527	Мра	3400
9		Compression stress of 1% normal strain	604	Мра	25
	Mechanical	compression stress of 2% normal strain	604	Мра	49
	Property (23℃) Compression	Pendulum impact test- no notches	179/leU	KJ/m²	No break
	Test	Pendulum impact test- notches	179/leA	KJ/m²	3.5
		Ball Indentation Hardness	2039-1	N/m²	170
		rockwell hardness	2039-2	-	M114
10	Electrical	Electric Resistance	(60243)	KV/mm	27
	Property (23℃)	Volume Resistance	(60093)	0hm.cm	> 10 <sup>17</sup>
	Floperty (23 C)	Surface Resistance	(60093)	0hm	> 10 <sup>17</sup>
11	Relative	100Hz	(60250)	-	3.0
	Dielectric Constant ε r	1M Hz	(60250)	-	3.0
12	Resistance	100Hz	(60250)	-	0.002
	constant	1M Hz	(60250)	-	0.002
13	ARC Resistance Index (CTI)		(60112)	-	175

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