

## 長春TPEE規格表

### 一般規格 general grade

Property 性質	Test condition	Units	1130-201LH	1140-201LH2	1140-201LH1	1140-201LH	1148-201LL	1155-201LL	1163-201LL	1172-201LL
Hardness, Shore D 硬度	ISO 868	D scale	30	33	36	40	48	55	63	72
Tensile Strength 引張強度	ISO 527	MPa	20	21	22	24	30	32	36	37
Tensile Elongation 引張伸長率	ISO 527	%	870	770	650	660	680	560	460	360
Flexural Modulus 繞曲彈性率	ISO 178	MPa	25	35	55	80	170	200	300	500
Notched Charpy Impact Strength 衝擊強度	ISO 179/1eA	KJ/m2	NO BREAK	NO BREAK	NO BREAK	NO BREAK	NO BREAK	NO BREAK	Partial BREAK	14
Melting Point 熔 點	ISO 3146C	°C	173	187	196	203	192	204	211	218
Melting Flow Index 熔融流動指數	ISO 1133 2.16 Kg at 230 °C	g/10 min	8 (190°C)	15	15	20	20	20	20	20
Volume Resistivity 體積抵抗率	IEC 60093	Ohm cm	1.0 E 12	1.0 E 12	1.0 E 12	3.0 E 12	6.8 E 12	1.0 E 13	7.0 E 13	8.0 E 13
Surface Resistivity 表面抵抗率	IEC 60093	ohm	2.0 E 12	2.0 E 12	2.0 E 12	8.0 E 12	3 E 14	1.0 E 13	3.0 E 13	9.0 E 13
Dielectric Strength 絕緣破壞強度	IEC 60243- 1Thickness=2mm	KV/mm	14	14	14	16.4	15.7	16.8	17	18.14
Specific Gravity 比重	ISO 1183	g/cm3	1.07	1.095	1.1	1.135	1.17	1.195	1.22	1.26
Water Absorption 吸水率	ISO 62 Immersion 24hrs	%	0.6	0.7	0.7	0.5	0.7	0.4	0.5	0.3
Mold Shrinkage 成型收縮率	ISO 294-4	%	1.65	1.65	1.65	1.65	1.65	1.6	1.7	1.7

**押出級規格 extrusion grade**

Property 性質	Test condition	Units	1140-201MH1	1140-201MH	1140-201ML	1155-201ML	1163-201ML	1172-201ML
Hardness, Shore D 硬度	ISO 868	D scale	36	40	40	55	63	72
Tensile Strength 引張強度	ISO 527	MPa	24	26	23	32	36	37
Tensile Elongation 引張伸長率	ISO 527	%	740	690	650	560	460	360
Flexural Modulus 繞曲彈性率	ISO 178	MPa	55	80	60	200	300	500
Notched Charpy Impact Strength 衝擊強度	ISO 179/1eA	KJ/m2	NO BREAK	NO BREAK	NO BREAK	NO BREAK	Partial BREAK	14
Melting Point 熔 點	ISO 3146C	°C	195	203	156	204	211	218
Melting Flow Index 熔融流動指數	ISO 1133 2.16 Kg at 230 °C	g/10 min	9	9	14	8	8	9
Volume Resistivity 體積抵抗率	IEC 60093	Ohm cm	1.0 E 12	3.0 E 12	1.0 E 12	1.0 E 13	7.0 E 13	8.0 E 13
Surface Resistivity 表面抵抗率	IEC 60093	ohm	3.0 E 12	8.0 E 12	2.0 E 12	1.0 E 13	3.0 E 13	9.0 E 13
Dielectric Strength 絕緣破壞強度	IEC 60243-1 Thickness=2mm	KV/mm	15.1	16.8	14	16.8	17	18.14
Specific Gravity 比重	ISO 1183	g/cm3	1.115	1.135	1.155	1.195	1.22	1.26
Water Absorption 吸水率	ISO 62 Immersion 24hrs	%	0.5	0.5	0.7	0.4	0.5	0.3
Mold Shrinkage 成型收縮率	ISO 294-4	%	1.65	1.65	1.65	1.6	1.7	1.7

**CVJ boots grade**

Property 性質	Test condition	Units	1143-104XH
Hardness, Shore D 硬度	ISO 868	D scale	43
Tensile Strength 引張強度	ISO 527	MPa	26
Tensile Elongation 引張伸長率	ISO 527	%	650
Flexural Modulus 繞曲彈性率	ISO 178	MPa	90
Notched Charpy Impact Strength 衝擊強度	ISO 179/1eA	KJ/m <sup>2</sup>	NO BREAK
Melting Point 熔 點	ISO 3146C	°C	207
Melting Flow Index 熔融流動指數	ISO 1133 2.16 Kg at 230 °C	g/10 min	≤ 1.5
Volume Resistivity 體積抵抗率	IEC 60093	Ohm cm	8.0 E 12
Surface Resistivity 表面抵抗率	IEC 60093	ohm	16.5
Dielectric Strength 絕緣破壞強度	IEC 60243- 1Thickness=2mm	KV/mm	9.0 E 12
Specific Gravity 比重	ISO 1183	g/cm <sup>3</sup>	1.145
Water Absorption 吸水率	ISO 62 Immersion 24hrs	%	0.5
Mold Shrinkage 成型收縮率	ISO 294-4	%	1.65