



Panlite®

L-1225Z 100-K

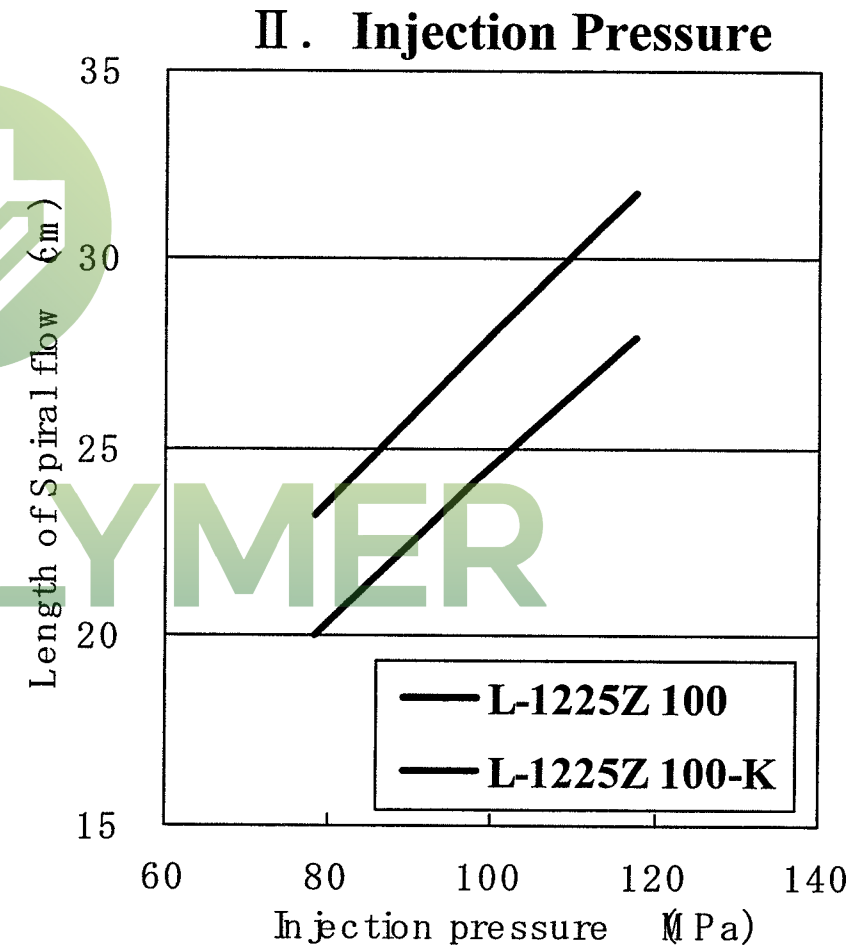
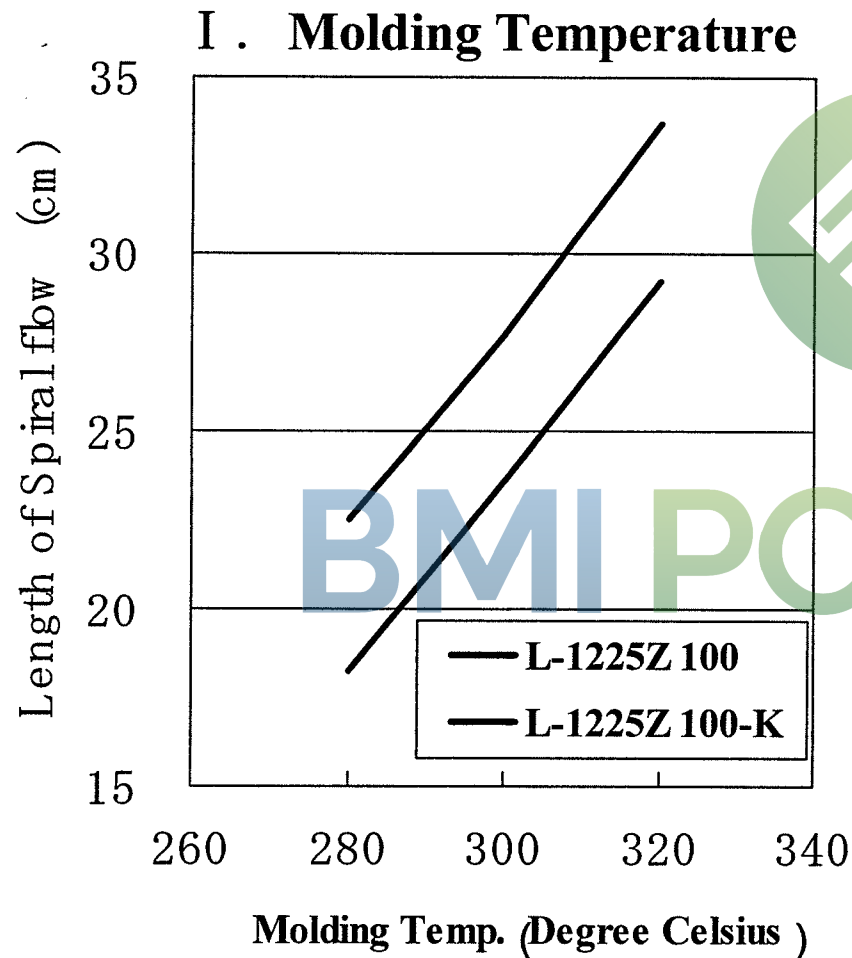
Polycarbonate

TEIJIN CHEMICALS LTD.
PLASTICS TECHNICAL CENTER

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FLOWABILITY (Spiral flow)

Injection Molding Machine : 150 Ton clamp
Injection Pressure : 98MPa (1000kgf/cm²)
Mold Temp. : 80Degree Celsius
(Spiral Flow mold width 2mm)



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Properties of Panlite UV grades

Property	Test Method	Unit	L-1225Z 100	L-1225Z 100-K
Specific Gravity	ASTM D792	—	1.20	1.20
Melt Flow Rate	ASTM D1238 300°C 1.2kg load	g/10min	11	17.5
Mold Shrinkage	ASTM D955	%	0.5—0.7	0.5—0.7
Tensile Strength @ Yield	ASTM D638	MPa	63	63
Tensile Elongation @ Break	ASTM D638	%	140	130
Flexural Modulus	ASTM D790	MPa	2260	2300
Flexural Strength @ Yield	ASTM D790	MPa	93	96
Notched Izod Impact (High)	ASTM D256 1.82MPa	J/m	830	820
Deflection Temperature under Load	ASTM D648	°C	131	130
Deflection Temperature under Load	ASTM D1003	%	88	88

The properties shown above are obtained by standard testing methods and are not guaranteed values.

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Comparative Properties of Panlite UV resistant grades

Property	Unit	Test Method	Measurement Condition	L-1225Z		
				100	100-K	100-M
Density	—	ISO 1183	—	1200	1200	1200
Melt Volume Flow Rate	cm ³ /10min	ISO 1133	300°C 1.2kg load	11	17	19
Tensile Yield Stress	MPa	ISO 527-1 and ISO 527-2	50mm/min	61	61	61
Tensile Fracture Designation Distortion	%			>50	>50	>50
Flexural Modulus	MPa	ISO 178	2mm/min	2400	2400	2400
Flexural Strength				94	94	95
Charpy Impact Strength	kJ/m ²	ISO 179	notched	71	69	68
Load Deflection Temperature	°C	ISO 75-1 and ISO 75-2	1.80MPa	128	127	127
			0.45MPa	141	140	140
Light transmission	%	ASTM D1003	Thickness 3mm	88	88	88

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