

	항목 Item	시험방법 Method		시험조건 Condition	단위 Unit	표준 Grade (Standard Grades)						
						VH	VH5	VH6	VHM	VG	TF8	TF9
물리적 성질 Physical properties	밀도 Specific Gravity	JIS K7112	ISO 1183		g/cm <sup>3</sup>	1.19	1.19	1.19	1.19	1.19	1.19	1.19
	전광선 투과율 Total Light Transmittance	JIS K7361-1	ISO 13468-1	3mm	%	93	93	93	93	93	93	93
	Haze Haze	JIS K7136	ISO 14782	3mm	%	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	굴절율 Refractive index	JIS K7142	ASTM D542	nD	—	1.49	1.49	1.49	1.49	1.49	1.49	1.49
	흡수율 Water absorption	JIS K7209	ISO 62	24hr	%	0.3	0.3	0.3	0.3	0.3	0.3	0.3
열적 성질 Thermal properties	비열 Specific heat	JIS K7123			J/(g·°C)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	선팽창계수 Coefficient of linear thermal expansion	JIS K7197			1/°C	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>	6×10 <sup>-5</sup>
	열전도율 Thermal conductivity	JIS A1412			W/(m·°C)	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	열변형온도 Heat distortion temperature	JIS K7191-1,2	ISO 75-1,2	1.8MPa	°C	100	100	94	100	94	94	94
	Vicat연화온도 Vicat Softening temperature	JIS K7206	ISO 306	B50	°C	107	107	101	107	102	101	100
	용융흐름정도 Melt flow rate	JIS K7210	ISO 1133	230°C,37.3N	g/10min	2.0	5.5	1.7	3.1	6.0	10.0	20.0
	Spiral유동성 (두께2mm) Spiral flow (2mm thickness)	MCC法	MCC Method	230°C	mm	130	180	120	140	190	220	270
				250°C	mm	220	290	200	230	290	340	420
성형수축율 Mold shrinkage	MCC法	MCC Method		%	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	
기계적 성질 Mechanical properties	인장강도 Tensile strength	JIS K7162	ISO 527-2	1A/5	MPa	77	61	75	76	75	61	54
	신율 Elongation	JIS K7162	ISO 527-2	1A/5	%	6	3	9	5	6	3	2
	인장탄성율 Modulus of Elasticity	JIS K7162	ISO 527-2	1A/1	GPa	3.3	3.3	3.3	3.3	3.3	3.3	3.2
	굴곡강도 Flexural strength	JIS K7171	ISO 178		MPa	140	130	130	135	135	125	115
	굴곡탄성율 Flexural modulus	JIS K7171	ISO 178		GPa	3.3	3.3	3.3	3.3	3.3	3.3	3.2
	Sharpy충격강도 Charpy impact strength	JIS K7111-1	ISO 179-1	1eU unnotched	kJ/m <sup>2</sup>	20	19	20	20	20	19	18
				1eAV notched	kJ/m <sup>2</sup>	1.4	1.3	1.4	1.4	1.3	1.3	
Rockwell 경도 Rockwell hardness	JIS K7202-2	ISO 2039-2	M scale	—	101	100	100	101	98	98	96	
전기적 성질 Electrical properties	표면저항율 Surface resistivity	JIS K6911			Ω	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>	>10 <sup>16</sup>
	체적저항율 Electrical volume resistivity	JIS K6911			Ωm	>10 <sup>13</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>	>10 <sup>13</sup>
	절연파괴강도 Dielectric strength	JIS K6911		4kV/sec	MV/m	20	20	20	20	20	20	20
	유전율 Dielectric constant	JIS K6911		60Hz	—	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	역률 Power factor	JIS K6911		60Hz	—	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	耐Arc성 Arc resistance	JIS K6911			—	No track	No track	No track	No track	No track	No track	No track
연소성	UL 94	UL94		1.5mm, 3.0mm	—	HB	HB	HB	HB	HB	HB	

\* 수치는 대표치로 보증치는 아님.

\* All technical information and data are typical values, and are not standard value.