

## PVC-C

I. Physical Properties	I. 물리적 특성	Test Method	Unit	Value
Specific Gravity	비중	ISO 1183	g/cm <sup>3</sup>	1.55
Water Absorption	수분 흡수율	DIN 53495	%	0.2
Max. permissible service temperature	사용온도			DIN 8061
Upper temperature limit	최고	-	°C	85
Lower temperature limit	최저	-	°C	-15
II. Mechanical Properties	II. 기계적 특성	Test Method	Unit	Value
Tensile Strength at yield	인장강도	ISO 527	MPa	57
Elongation at yield	항복점	ISO 527	%	3
Tensile strength at break	장력	ISO 527	Mpa	80
Elongation at break	파단점	ISO 527	%	15
Impact strength	충격강도	ISO 179	KJ/m <sup>2</sup>	o.B.
Izod Impact Strength	Izod 충격강도	ISO 179	KJ/m <sup>2</sup>	8
Rockwell Hardness	Rockwell 경도	ISO 2039-1	Mpa	150
Flexural Strength	굴곡강도	DIN 53505	Mpa	90
Modulus of elasticity	탄성율	ISO 178	Mpa	3000
III. Thermal Properties	III. 열적특성	Test Method	Unit	Value
Vicat softening temp.	연화점	ISO 306	°C	105
Heat Deflection Temperature	열변형 온도	ISO 75	°C	102
Cof. Of linear therm. Expansion	선팽창계수	DIN 53752	K <sup>-1</sup> X10 <sup>-4</sup>	0.6
Thermal conductivity at 20°C	열전도도	DIN 52612	W/(m X K)	0.14
IV. Electrical Properties	IV. 전기적 특성	Test Method	Unit	Value
Volume resistivity	체적저항	VDE 0303	Ω*cm	≥ 10 <sup>15</sup>
Surface resistivity	표면저항	VDE 0303	Ω	≥ 10 <sup>13</sup>
Dielectric constant at 1MHz	유전율	DIN 53483		3
Diel. Loss factor at 1MHz	유전정점	DIN 53483		0.01
Dielectric strength	유전파과전압	VDE 0303	KV/mm	20-40
Tracking resistance	내 트래킹 저항	DIN 53483		KB 600
V. Additional Data	V. 기타	Test Method	Unit	Value
Bond ability	접착성	-	-	+
Friction coefficient	마찰계수	DIN 53375	-	0.6
Flammability	연소성	UL 94	-	V-0
UV stabilisation	UV 안정성			-

## PVC-U

I. Physical Properties	I. 물리적 특성	Test Method	Unit	Value
Specific Gravity	비중	ISO 1183	g/cm <sup>3</sup>	1.36
Water Absorption	수분 흡수율	DIN 53495	%	0.2
Max. permissible service temperature	사용온도			DIN 8061
Upper temperature limit	최고	-	°C	60
Lower temperature limit	최저	-	°C	-15
II. Mechanical Properties	II. 기계적 특성	Test Method	Unit	Value
Tensile Strength at yield	인장강도	ISO 527	MPa	55
Elongation at yield	항복점	ISO 527	%	3
Tensile strength at break	장력	ISO 527	Mpa	30
Elongation at break	파단점	ISO 527	%	33
Impact strength	충격강도	ISO 179	KJ/m <sup>2</sup>	o.B.
Izod Impact Strength	Izod 충격강도	ISO 179	KJ/m <sup>2</sup>	3
Rockwell Hardness	Rockwell 경도	ISO 2039-1	Mpa	120
Flexural Strength	굴곡강도	DIN 53505	Mpa	90
Modulus of elasticity	탄성율	ISO 178	Mpa	3000
III. Thermal Properties	III. 열적특성	Test Method	Unit	Value
Vicat softening temp.	연화점	ISO 306	°C	75 <sup>3)</sup>
Heat Deflection Temperature	열변형 온도	ISO 75	°C	75 <sup>4)</sup>
Cof. Of linear therm. Expansion	선팽창계수	DIN 53752	K <sup>-1</sup> X10 <sup>-4</sup>	0.8
Thermal conductivity at 20°C	열전도도	DIN 52612	W/(m X K)	0.14
IV. Electrical Properties	IV. 전기적 특성	Test Method	Unit	Value
Volume resistivity	체적저항	VDE 0303	Ω*cm	≥ 10 <sup>15</sup>
Surface resistivity	표면저항	VDE 0303	Ω	≥ 10 <sup>13</sup>
Dielectric constant at 1MHz	유전율	DIN 53483		3
Diel. Loss factor at 1MHz	유전정점	DIN 53483		0.01
Dielectric strength	유전파과전압	VDE 0303	KV/mm	20-40
Tracking resistance	내 트래킹 저항	DIN 53483		KB 600
V. Additional Data	V. 기타	Test Method	Unit	Value
Bond ability	접착성	-	-	+
Friction coefficient	마찰계수	DIN 53375	-	0.6
Flammability	연소성	UL 94	-	V-0
UV stabilisation	UV 안정성			0