

# 물 성 표



광학산PC	제 품 특 성
PRODUCT/ GRADE	LED 용 Tube Bulb 압출 사출용 Base Resin에 따라 MI 7 ~ 30 광투과율은 Needs에 따라 조절(40 ~ 90%)
PCL501	

Property	Test Method	Test condition	Unit	Result
SPECIFIC GRAVITY(비중)	ASTM D792			1.20
Mold Shrinkage (성형수축율)	ASTM D955		%	0.5 ~ 0.7
Melt Flow Rate(유동성)	ASTM D1238	300°C X 1.2kg	g/10min	7 ~ 30
Tensile Strength(인장강도)	ASTM D638	50mm/min	kg/cm <sup>2</sup>	570
Tensile Modulus(인장탄성율)	ASTM D638	1mm/min	kg/cm <sup>2</sup>	>100
Elongation at Yield(신율)	ASTM D638	50mm/min	%	
Flexural Strength(굴곡강도)	ASTM D790	15mm/min	kg/cm <sup>2</sup>	900
Flexural Modulus(굴곡 탄성율)	ASTM D790	15mm/min	kg/cm <sup>2</sup>	21,000
IZOD IMPACT(충격강도)	ASTM D256	1/4", 23°C	kg·cm/cm	
		1/4", -30°C	kg·cm/cm	
		1/8", 23°C	kg·cm/cm	80 ~ 85
		1/8", -30°C	kg·cm/cm	
Rockwell hardness	ASTM D785	R-Scale		
Heat Deflection Temperature (열변형 온도)	ASTM D648	18.6kg/cm <sup>2</sup> 1/4" (Annealed)	°C	125
		18.6kg/cm <sup>2</sup> 1/4" (Unannealed)	°C	
		4.6kg/cm <sup>2</sup> 1/4" (Annealed)	°C	142
		4.6kg/cm <sup>2</sup> 1/4" (Unannealed)	°C	
Vicat Softening Temp (annealed)(Vicat 연화점)	ASTM D1525	5kg/50°C/h	°C	153
Flammability(난연성)	UL94	1/8"	class	V-2
Chatacteristics(특성)			광학특성, 내광성	

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