

Product Information

Extrusion Grade

KOPHOS[®] Series

KOPHOS[®] Series, developed to compensate the straight character of LED Chip, is the best solution to meet the customers needs. It features the optimized the light diffusion property and high transmittance. Also, it applied the best light diffusion system to raise the safety of the product and has the high impact property of Polycarbonate. KOPHOS[®] maintains high quality although it's exposed to the high temperature and UV in long-term. Lastly, it has the flawless quality level by adopting the top Clean System.

KOPHOS[®] KO1365H

: Extrusion, High Diffusion , Moderate Transmittance

Properties	Test Method	Unit	Value
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Physical

Specific Gravity	ISO 1183	-	1.2
Melt Index (300°C, 1.2kg)	ISO 1133	g/10min	12
Shrinkage	ISO 294	%	
Water Absorption	23°C,H ₂ O, 24hr	ISO 62	%

Mechanical

Tensile Strength	23°C	ISO 527	MPa	60
Tensile Elongation	23°C	ISO 527	%	200
Flexural Strength	23°C	ISO 178	MPa	90
Flexural Modulus	23°C	ISO 178	MPa	2,300
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	
Rockwell Hardness		ISO 2039-1	R scale	

Thermal

Melting Point		ISO 11357-1	°C	
Heat Deflection Temperature		ISO 75	°C	
	0.45 MPa		°C	128
	1.8 MPa		°C	
Flammability(0.8mm)		UL94		0.8~3.2mm V2

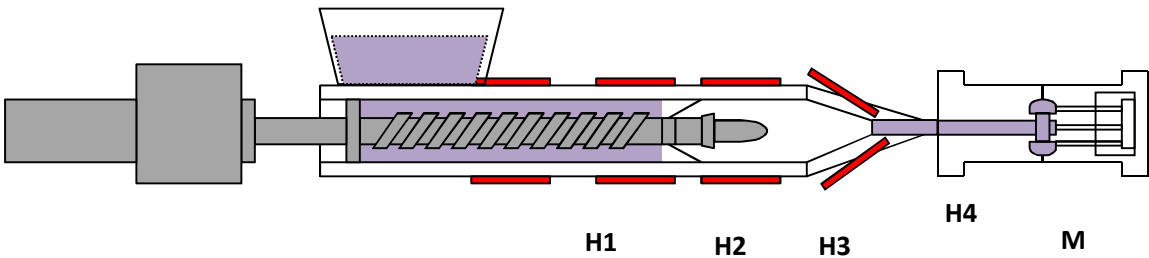
Electrical

Comparative Tracking Index(CTI)	IEC 60112	Volts	
Volume Resistivity	IEC 60093	Ohm·cm	
Surface Resistivity	IEC 60093	Ohm	

Optical

TT (Total Transmittance)	ISO 13468	%	67.00 ± 2.0
Haze	ISO 14782	%	99 ↑

Processing Guide (Injection Molding)



	H1	H2	H3	H4
Cylinder Temperature(°C)	270~290	280~300	290~310	280~300
Mold Temperature(°C)	60~90			
Processing Moisture Contents(%)	≤0.03			
Pre-drying	Dehumidified Dryer, 100~120°C, 3~5hr			