

KOPEL[®] KP3372

Injection Molding, PEL, General Purpose, High Modulus

Application

Living(Cable, Low noise gear)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.27
Melt Flow Index	240 ℃, 2.16kg	ASTM D1238	g/10min	36
Shrinkage		ASTM D955	%	1.72 ~ 1.78
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.3
Mechanical				
Tensile Strength at Break (3.2mm)	200 mm/min	ASTM D638	MPa	37
Elongation at Break (3.2mm)	200 mm/min	ASTM D638	%	330
Flexural Strength (3.2mm)	200 mm/min	ASTM D790	MPa	33
Flexural Modulus (3.2mm)	200 mm/min	ASTM D790	MPa	550
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	120
	-40℃		J/m	47
Shore hardness	D scale	ASTM D2240	-	72
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	215
Vicat softening temperature	10N	ASTM D1525	℃	208
Flammability(0.8mm)		UL94	Class	HB
Electrical				
Dielectric Strength		IEC 60243	kV/mm	
Volume Resistivity		IEC 60093	Ω·cm	
Surface Resistivity		IEC 60093	Ω/sq	

※ 1Mpa = 10.197162 Kg/cm², 1J/m = 0.10197 Kg·cm/cm, (Test specimen Thickness)



Processing Guide (Injection Molding)

Drying Temperature(℃)	100~115	(Dehumidifying Dryer)			
Drying Time(hr)	3~5				
Processing Moisture Contents(%)	≤ 0.1				
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear	
	230~240	225~240	225~235	200~210	
Mold Temperature(℃)	40~60				

