

KOPEL[®] KP3340HR

Injection Molding/Extrusion, PEL, General Purpose, Low Modulus

Application

Living(Bed spring, Elastic fabric)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.13
Melt Flow Index	210 ℃, 2.16kg	ASTM D1238	g/10min	10.6
Shrinkage		ASTM D955	%	1.10~1.14
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.7
Mechanical				
Tensile Strength at Break (3.2mm)	200 mm/min	ASTM D638	MPa	18
Elongation at Break (3.2mm)	200 mm/min	ASTM D638	%	690
Flexural Strength (3.2mm)	200 mm/min	ASTM D790	MPa	5
Flexural Modulus (3.2mm)	200 mm/min	ASTM D790	MPa	84
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	NB
	-30 ℃		J/m	NB
Shore hardness	D scale	ASTM D2240	-	40
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	170
Vicat softening temperature	10N	ASTM D1525	℃	120
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(℃)	90~110 (Dehumidifying Dryer)			
Drying Time(hr)	4~8			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear
	185~200	180~200	170~190	160~170
Mold Temperature(℃)	20~40			

