

KOPEL[®] KP3355HR

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

Application

Living(Golf ball), industry(Draft gear)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.18
Melt Flow Index	220 ℃, 2.16kg	ASTM D1238	g/10min	13.9
Shrinkage		ASTM D955	%	1.20~1.21
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.5
Mechanical				
Tensile Strength at Break (3.2mm)	200 mm/min	ASTM D638	MPa	18
Elongation at Break (3.2mm)	200 mm/min	ASTM D638	%	560
Flexural Strength (3.2mm)	200 mm/min	ASTM D790	MPa	10
Flexural Modulus (3.2mm)	200 mm/min	ASTM D790	MPa	165
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	NB
	-30 ℃		J/m	NB
Shore hardness	D scale	ASTM D2240	-	55
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	195
Vicat softening temperature	10N	ASTM D1525	℃	169
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(℃)	100~110	(Dehumidifying Dryer)		
Drying Time(hr)	3~8			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear
	210~220	210~220	200~220	180~190
Mold Temperature(℃)	20~40			

