

KOPEL[®] KP3355MF

Injection Molding/Extrusion, PEL, Monofilament, Mdiun Modulus

Application

Automotive(Car sheet monofilament)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.18
Melt Flow Index	220 ℃, 2.16kg	ASTM D1238	g/10min	25.6
Shrinkage		ASTM D955	%	1.1~1.2
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.5
Mechanical				
Tensile Strength at Break (3.2mm)	200 mm/min	ASTM D638	MPa	21
Elongation at Break (3.2mm)	200 mm/min	ASTM D638	%	563
Flexural Strength (3.2mm)	200 mm/min	ASTM D790	MPa	11
Flexural Modulus (3.2mm)	200 mm/min	ASTM D790	MPa	192
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	
	-30 ℃		J/m	
Shore hardness	D scale	ASTM D2240	-	55
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	195
Vicat softening temperature	10N	ASTM D1525	℃	170
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				

