

KOPEL[®] KP3768EX

Extrusion Molding, TPC-ET

Application

Automotive parts, Optical fiber tubing, etc.

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Specific Gravity		ISO 1183	-	1.25
Melt Flow Index	230 °C, 2.16kg	ISO 1133	g/10min	18
Shrinkage		ISO 294-4	%	1.5~1.9
Water Absorption	23°C, H ₂ O, 24hr	ISO 62	%	0.2
Mechanical				
Tensile Strength at Break (2.0mm)	50 mm/min	ISO 527	MPa	52
Elongation at Break (2.0mm)	50 mm/min	ISO 527	%	600 †
Flexural Modulus (4.0mm)	10 mm/min	ISO 178	MPa	650
Izod Impact strength (4.0mm)		ISO 180		
(Notched)	23 °C		kJ/m ²	20
	-40 °C		kJ/m ²	5
Charpy Impact Strength (4.0mm)		ISO 179/1eA		
(Notched)	23 °C		kJ/m ²	23.0
	-40 °C		kJ/m ²	4.3
Shore Hardness (Max)		ISO 868	Shore D	68
Thermal				
Melting Point	20 °C/min	ISO 11357-1	°C	217
Vicat softening temperature	10N, 50°C/h	ISO 306	°C	205
Flammability (0.8mm)		UL94	Class	HB

※ (Test specimen Thickness)



Processing Guide (Injection Molding)

Drying Temperature(°C)	80 ~ 110	(Dehumidifying Dryer)			
Drying Time(hr)	3~6				
Processing Moisture Contents(%)	≤ 0.08				
Cylinder Temperature(°C)	Nozzle	Front	Middle	Rear	
	220~240	220 ~ 240	210 ~ 230	190 ~ 210	
Mold Temperature(°C)	20~40				

