

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)

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The values of each item in this document provide general information about the product and may be different from actual ones as reference dimensions for customer's convenience of material selection. This information cannot be viewed as a Certificate of Analysis(COA) issued by the Company to customers, nor can it be used as a basis for legal disputes such as lawsuits. The value of each item cannot be compared with the measurement result of other environment, equipment and method because it is measured under the specific condition using the existing measurement equipment and external authorized agency equipment.

The characteristics described above are subject to change, and you are solely responsible for the determination and use of this product.

In addition, these materials do not apply when adding pigments and other additives to the product depending on the customer's purpose of use. The value of the shrinkage factor in the above data is the value measured under the specific injection condition using our standard test piece and may be changed according to other test piece (product) and condition. Therefore, it is the customer's responsibility to apply the correction by considering the required characteristics of the molded product, the mold design condition, the product shape, the injection conditions, etc. Even if there is a difference in the shrinkage rate of the product in the mold manufactured by applying this shrinkage ratio, we also assume no guarantee or liability.

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			

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