KOLON PLASTICS, INC.

Product Information

Standard Grade

KOPEL® Standard grade

KOPEL® standard grade are a thermoplastic polyester elastomer, which is a new engineering thermoplastic elastomer combining the properties of conventional rubber and thermoplastic. Its flexibility and elastic recovery are very similar to rubber, but its processability is much superior to rubber. It's mechanical properties, heat resistance and weather resistance are far better than the performance of conventional rubber.

KOPEL® KP3372

: high modulus injection grade with 72 shore D hardness

Properties		Test Method	Unit	Value
Physical				
Specific Gravity		ISO 1183	-	1.27
Filler Contents		ISO 1172	%	N.D
Shrinkage	Flow/Transverse	ISO 294-4	%	1.61/1.56
Water Absorption	23℃,H_2O, 24hr	ISO 62	%	0.39
Mechanical				
Tensile Strength	23℃	ISO 527	MPa	42
Tensile Elongation	23℃	ISO 527	%	420
Flexural Modulus	23℃	ISO 178	MPa	600
Notched Charpy Impact Streng	23℃	ISO 179/1eA	kJ/m^2	30
Shore Hardness (Max)		ISO 868	Shore D	72
Thermal				
Melting Point		ISO 11357-1	℃	220
Vicat temperature (10N, 50°C/h)		ISO 306	℃	205
Melt flow rate (240°C, 2.16kg)		ISO 1133	g/10min	36
Flammability(0.8mm)		UL94		HB

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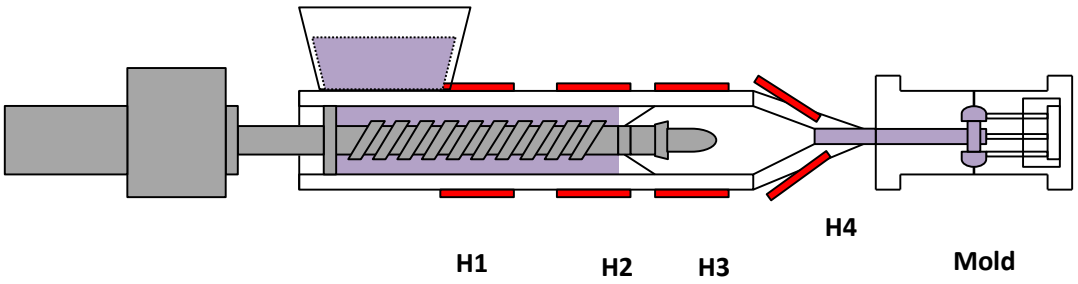
Electrical

Dielectric strength	IEC 60243	kv/mm	22.9
Dielectric constant	ASTM D150	-	3.9
Dissipation factor	ASTM D150	-	$1.76X10^{-3}$
Volume Resistivity	IEC 60093	Ohm.cm	10^{13}

Processing Guide (Injection Molding)



	H1	H2	H3	H4
Cylinder Temperature(℃)	180~200	190~230	200~240	220~250
Mold Temperature(℃)		30~80		
Processing Moisture Contents(%)		≤0.08		
Pre-drying	Dehumidified Dryer, 100~120℃, 3~6hr			

The above-mentioned data was measured by Kolon Plastics, inc,. under certain conditions and environment. Therefore, it can not be compared with the data measured under different conditions and environment. And not guaranteed and no warranty. If other additives and pigments are used on this product, The above data cannot be applied. The data can not be used as the evidence of legal proceedings.

Contact

www.kolonplastics.com

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