

Ecotran[®] E1040G

Polyphenylene sulfide

Out line : Ecotran E1040G is a 40% glass fiber filled PPS compound developed to provide various injection - mold applications

	Method	Unit	E1040G NA	E1040G BK
General Information			General purpose	General purpose
Physical properties				
Density	ISO 1183/A	-	1.66	1.66
Water absorption	ISO 62	%	0.02	0.02
Mold shrinkage (MD/TD)	ISO 294-4	%	0.3 / 0.6	0.3 / 0.6
Mechanical properties				
Tensile strength	ISO 527-1, -2	Mpa	170	162
Tensile elongation at break	ISO 527-1, -2	%	1.6	1.5
Flexural strength	ISO 178	Mpa	255	245
Flexural modulus	ISO 178	Mpa	13,400	13,100
Flexural elongation at break	ISO 178	%		
Charpy impact strength (notched/unnotched)	ISO 179/1eU	KJ/m2	8.0 / 35	7.0 / 33
Rockwell hardness	ISO 2039/2	R-Scale		
Thermal properties				
Melting temperature	ISO 11357	°C	280	280
Coefficient of thermal expansion	ISO 11359-1, -2	m/mK		
Heat Deflection temperature, 1.82Mpa	ISO 75-1, -2/A	°C	265	265
Flammability (T=3.2mm)	UL 94	class	V-0	V-0
Electrical properties				
Dielectric strength (T=1.0mm)	IEC 60243-1	kv/mm	28	
Dielectric constant, 1MHz	IEC 60250	-	3.8	
Dielectric factor, 1MHz	IEC 60250	-	0.0016	
Comparative tracking index (CTI)	IEC 60112	Volt	150	
Arc resistance	ASTM D495	sec.	125	
Volume resistivity	IEC 60093	Ohm.cm	10 ¹⁶	
Processing Conditions				
Pre-drying		-	130°C / 4hr	130°C / 4hr
Cylinder temperature		°C	280 - 330	280 - 330
Mold temperature		°C	130 - 150	130 - 150

* The information provided in this data sheet is based on Initz's knowledge and test method, so it can not be used as guaranteed specification limits.

