

# Ecotran<sup>®</sup> E5060S

## Polyphenylene sulfide

**Out line :** Ecotran E50600S is a glass fiber and mineral filled PPS compound developed to provide a high strenght

	Method	Unit	E5060S NA	E5060S BK
<b>General Information</b>			GF/MF60% strength	GF/MF60% strength
<b>Physical properties</b>				
Density	ISO 1183/A	-	1.88	1.88
Water absorption	ISO 62	%	0.02	0.02
Mold shrinkage (MD/TD)	ISO 294-4	%	0.3 / 0.65	0.3 / 0.65
<b>Mechanical properties</b>				
Tensile strength	ISO 527-1, -2	Mpa	155	150
Tensile elongation at break	ISO 527-1, -2	%	1.0	0.9
Flexural strength	ISO 178	Mpa	230	230
Flexural modulus	ISO 178	Mpa	19,000	19,000
Flexural elongation at break	ISO 178	%		
Charpy impact strength (notched/unnotched)	ISO 179/1eU	KJ/m2	6.5 / 22	6.0 / 22
Rockwell hardness	ISO 2039/2	R-Scale	121	121
<b>Thermal properties</b>				
Melting temperature	ISO 11357	°C	280	280
Coefficient of thermal expansion	ISO 11359-1, -2	m/mK	1.9 x 10 <sup>-5</sup>	1.9 x 10 <sup>-5</sup>
Heat Deflection temperature, 1.82Mpa	ISO 75-1, -2/A	°C	265	265
Flammability (T=3.2mm)	UL 94	class	V-0	V-0
<b>Electrical properties</b>				
Dielectric strength (T=1.0mm)	IEC 60243-1	kv/mm	25	25
Dielectric constant, 1MHz	IEC 60250	-	4.6	4.6
Dielectric factor, 1MHz	IEC 60250	-	0.0016	0.0016
Comparative tracking index (CTI)	IEC 60112	Volt	225	225
Arc resistance	ASTM D495	sec.	180	180
Volume resistivity	IEC 60093	Ohm.cm	10 <sup>16</sup>	10 <sup>16</sup>
<b>Processing Conditions</b>				
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.

