

ECOTRAN E1040HRW

Polyphenylene sulfide

E1040HR NC is a 40% glass fiber filled PPS compound with good hydrolysis resistance & laser weldability

E1040HRW			
General Information	GF 40%		
	Laser weldable		
	Hydrolysis resistance		
Physical properties	Method	Unit	
Density	ISO 1183/A	g/cm ³	1.65
Water absorption	ISO 62	%	0.02
Mold shrinkage (MD/TD)	ISO 294-4	%	0.3 / 0.6
Mechanical properties			
Tensile strength	ISO 527-1, -2	MPa	200
Tensile elongation at break	ISO 527-1, -2	%	1.7
Flexural strength	ISO 178	MPa	280
Flexural modulus	ISO 178	GPa	13.5
Charpy impact strength (notched/unnotched)	ISO 179/1eA,U	kJ/m ²	10 / 40
Rockwell hardness	ISO 2039/2	R-Scale	120
Thermal properties			
Melting temperature	ISO 11357	°C	280
Heat Deflection temperature, 1.82Mpa	ISO 75-1, -2/A	°C	265
Flammability (T=0.3mm)	UL 94	class	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	175
Arc resistance	ASTM D495	sec.	125
Volume resistivity	IEC 60093	Ohm.cm	10 ¹⁶
Processing Conditions			
Pre-drying	-	-	130°C / 4hr
Cylinder temperature	°C	-	280 - 330
Mold temperature	°C	-	130 - 150

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