

BASF

PPSU

P 3010

Product information

Part Marking Code	PPSU-FR
Material Shape	Pellets
Process	Injection molding
Viscosity	High viscosity
FR	V-0
Material Attribute	Flame retardant
Features	Non-enhanced chemical resistance

Mechanical behavior	Condition	Standard	Value	Unit
Elongation	Yield 23°C	ISO 527	7.8	%
Izod Notch Impact	-30°C	ISO 180	25	kJ/m²
Izod Notch Impact	23°C	ISO 180	55	kJ/m²
Tensile Strength	Yield 23°C	ISO 527	74.0	MPa
Tensile Modulus	23°C	ISO 527	2270	MPa
Charpy Un-notch Impact	-30°C	ISO 179	NB	kJ/m²
Charpy Un-notch Impact	23°C	ISO 179	NB	kJ/m²
Charpy Notch Impact	-30°C	ISO 179	25	kJ/m²
Charpy Notch Impact	23°C	ISO 179	75	kJ/m²

Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 1.80MPa	ISO 75	198	°C
CLE	Flow		5.5E-5	cm/cm/°C

Physical property	Condition	Standard	Value	Unit
Water Absorption	23°C Saturation	ISO 62	1.2	%
Water Absorption	23°C 50RH Balance	ISO 62	0.60	%
Shrinkage	xFlow	ISO 294	1.0	%
Shrinkage	Flow	ISO 294	0.90	%
Density		ISO 1183	1.29	g/cm³
Melt Index	360°C 10kg	ISO 1133	35	cm³/10min

Electrical properties	Condition	Standard	Value	Unit
CTI		IEC 60112	150	V
Dielectric Constant	100Hz	IEC 60250	3.80	
Dielectric Constant	1MHz	IEC 60250	3.70	
Volume Resistivity		IEC 60093	1E15	Ω.cm
Dielectric Strength		IEC 60243	44	KV/mm
Dissipation Factor	100Hz	IEC 60250	0.0017	
Dissipation Factor	1MHz	IEC 60250	0.0089	

Surface Resistivity		IEC 60093	1E15	Ω
Hardness	Condition	Standard	Value	Unit
Ball Indentation Hardness		ISO 2039	124	MPa
Flammability	Condition	Standard	Value	Unit
Flame Rating	All Color 1.5mm	UL94	V-0	
Flame Rating	All Color 3.0mm	UL94	V-0	