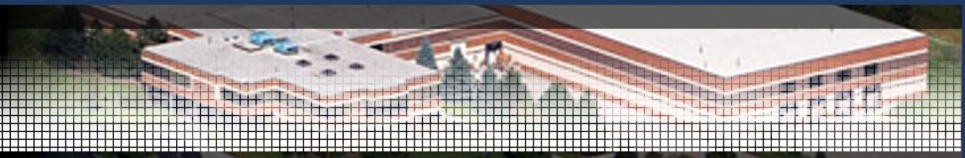




SLS NYLON 12



PROPERTIES	CONDITION	TEST METHOD	PA12	GLASS FILLED
Specific Gravity	20 °C	ASTM D792	0.97	1.40
Moisture Absorption	23 °C	ASTM D570	0.41 %	0.30%

THERMAL PROPERTIES

Melting Point	T _m	DSC	184 °C	185 °C
DTUL	0.45 MPa	ASTM D648	177 °C	175 °C
DTUL	1.82 MPa	ASTM D648	86 °C	110 °C

MECHANICAL PROPERTIES

Tensile Strength		ASTM D638	44 MPa	38.1 MPa
Tensile Modulus		ASTM D638	1600 MPa	5910 MPa
Tensile Elongation at Break		ASTM D638	9 %	2 %
Flexural Modulus		ASTM D790	1285 MPa	3300 MPa
Impact Strength	Notched Izod	ASTM D256	214 J/m	96 J/m
Impact Strength	Unnotched Izod	ASTM D256	428 J/m	101 J/m

SURFACE FINISH

Facing	As Processed (R _a)		8.5 μm	6.2 μm
	After Polishing (R _a)		0.13 μm	1.0 μm

ELECTRICAL PROPERTIES

Volume Resistivity	22 °C, 50 % RH, 500V	ASTM D257-93	3.1x10 ¹⁴ ohm·cm	2.0x10 ¹⁴ ohm·cm
Surface Resistivity	22 °C, 50 % RH, 500V	ASTM D257-93	3.0x10 ¹⁴ ohm	2.3x10 ¹⁴ ohm
Dielectric Constant	22 °C, 50 % RH, 500V	D150-95	2.9	2.9
Dielectric Strength		D149-95a	1.6x10 ⁴ v/mm	1.5x10 ⁴ v/mm
Comparative Tracking Index		D5288-92	585 V, Ti-Cu and or IEC Standard	TBD ,1mm depth

CHEMICAL RESISTANCE Alkalines, hydrocarbons, fuels and solvents