



T.C.I
Plastics

PFA DATA SHEET

MECHANICAL/PHYSICAL	ASTM METHOD	UNIT	VALUE
Melt Flow Rate	D3307	g/10 min	1 - 3
Specific Gravity	D792	g/cm ³	2.12 - 2.17
Water Absorption, 24 hr.	D570	%	< 0.03
Tensile Strength, 23°C	D1708	psi	3,625 - 4,000
Elongation, 23°C	D1708	%	300
Compressive Strength, 23°C	D695	psi	3,500
Impact Strength, 23°C, Notched Izod	D256	J/m	no break
Flexural Modulus, 23°C	D790	psi	90,000
Durometer Hardness, Shore D	D2240	D	55 - 60
Coefficient of Friction	D1894		0.21
Deformation Under Load, 23°C, 100 psi, 10 hr	D621	%	2
THERMAL			
Melting Point, Nominal	D3418	°C	302 - 310
Thermal Expansion (21°C to 100°C)	D696	mm/mm/°C	14 x 10 ⁻⁵
Thermal Expansion (100°C to 149°C)	D696	mm/mm/°C	18 x 10 ⁻⁵
Thermal Expansion (149°C to 208°C)	D696	mm/mm/°C	22 x 10 ⁻⁵
Oxygen Index	D2863	%	> 95
Maximum Service Temperature		°C	260
Thermal Conductivity	DuPont	W/m-K	0.19
Flammability	UL 94		V-0
ELECTRICAL			
Surface Resistivity	D257	ohm-sq	10 ¹⁷
Volume Resistivity	D257	ohm-cm	10 ¹⁸
Dielectric Strength Short Time (10 mil film)	D149	Volts/mil	2,000
Dielectric Constant, 23°C, 60-10 ⁶ Hz	D150		2.03 - 2.1
Dissipation Factor, 23°C, 60-10 ⁶ Hz	D150		0.0001
Arc Resistance	D495	seconds	> 180

Information provided by TCI.
Note: The data provided in this table are typical for the resins tested and do not represent product specifications.