

## TECHNICAL DATA SHEET PA 6.6 STANDARD

### MECHANICAL CHARACTERISTICS

PROPERTY	STANDARD	UNIT	Dry as Molded <sup>(1)</sup>	Conditioned <sup>(2)</sup>
Tensile Strength at Yield	ASTM D 638	Mpa	80	60
Tensile Elongation at Break	ASTM D 638	%	70	>200
Izod Impact Strength (notched)	ASTM D 256	KJ/m <sup>2</sup>	5	16
Flexural Modulus	ASTM D 790	Mpa	2700	1300

### THERMAL PROPERTIES

PROPERTY	STANDARD	UNIT	Dry as Molded <sup>(1)</sup>	Conditioned <sup>(2)</sup>
Melting Temperature	DSC	°C	260	260
Heat Distortion Temperature (1.82 Mpa)	ASTM D 648	° C	85	70
Heat Distortion Temperature (0.46 Mpa)	ASTM D 648	° C	230	220
Max Continous Service Temperature (1.5 mm thickness)	UL 746	° C	85	85

### ELECTRICAL PROPERTIES

PROPERTY	STANDARD	UNIT	Dry as Molded <sup>(1)</sup>	Conditioned <sup>(2)</sup>
Dielectric Constant (10 <sup>2</sup> Hertz)	ASTM D 150		3.7	6
Volume Resistivity	ASTM D 257	Ohm.m	6 x 10 <sup>13</sup>	2 x 10 <sup>11</sup>
Comparative tracking index	ASTM D 3638	Volts	600	

### OTHER CHARACTERISTICS

PROPERTY	STANDARD	UNIT	Dry as Molded <sup>(1)</sup>	Conditioned <sup>(2)</sup>
Flammability (0.8 mm thickness)	UL 94	UNIT	V-2	
Glow Wire Test (1.5 mm thickness)	IEC 695-2	° C	850	
Density	ISO 1183	g / cm <sup>3</sup>	1.14	
Water absorption 24 hours	ASTM D 570	%	2.5	
Water absorption at saturation	ASTM D 570	%	8.5	
Limited Oxygen Index (LOI)	ASTM D 2863	%	26	

<sup>(1)</sup> 0.2% moisture. Samples sealed in moisture barrier packages immediately after molding;

<sup>(2)</sup> Specimens conditioned for 48 hours at 50% relative humidity and 23 °C.