

State: nylon (PA 610)

Application: molding and extrusion compound

Material Properties

Mechanical Properties		Conditions		
		State 1	State 2	ASTM
Tensile Strength (MPa)	71	at break	dry (0.2% water content)	D638
	51	at break	50% relative humidity	D638
Flexural Strength (MPa) at yield or break	3	dry (0.2% water content)		D790
Flexural Strength (MPa) at yield or break	2	50% relative humidity		D790
Elongation at break (%)	70		dry (0.2% water content)	D638
	150		50% relative humidity	D638

Physical & Electrical Properties		Conditions	
		State	ASTM
Water Absorption (% weight increase)	3.3	saturated	D570
	1.4	after 24 hrs	D570

Processing Properties		Conditions	
		Type	ASTM
Melting Temperature (°C)	220	T _m , crystalline	
Processing Temperature (°C)	230 - 252	injection molding	
	249 - 260	extrusion	
Molding Pressure (MPa)	7 - 131		
Compression Ratio	3 - 4		
Linear Mold Shrinkage (cm/cm)	0.005 - 0.015		D955