

CERTIFICADO OF POLYPROPILENO

ASTM or UL test	Property	Homopolymer	Co-poly mer	Flame Retardant
PHYSICAL				
D792	Density (lb/in ³) (g/cm ³)	0.033 0.905	0.033 0.9	0.035 0.988
D570	Water Absorption, 24 hrs (%)	<0.01	0.01	0.02
MECHANICAL				
D638	Tensile Strength (psi)	4,800	4,800	4,300
D638	Tensile Modulus (psi)	195,000		
D638	Tensile Elongation at Yield (%)	12	23	28
D790	Flexural Strength (psi)	7,000	5,400	
D790	Flexural Modulus (psi)	180,000	160,000	145,000
D695	Compressive Strength (psi)	7,000	6,000	
D695	Compressive Modulus (psi)			
D785	Hardness, Rockwell R	92	80	
D256	IZOD Notched impact (ft-lb/in)	1.9	7.5	0.65
THERMAL				
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./F)	6.2	6.6	
D648	Heat Deflection Temp (F / C)			
	at 66 psi	210 / 99	173 / 78	106 / 41
	at 264 psi	125 / 52	110 / 43	57 / 14
D3418	Melting Temperature (F / C)	327 / 164	327 / 164	327 / 164
	Max Operating Temp (F / C)	180 / 82	170 / 77	180 / 82
C177	Thermal Conductivity (BTU-in/ft-hr-F (X 10 cal/cm-sec-C)	0.76-0.81 2.6-2.8		
UL94	Flammability Rating	HB	n.r.	V-O
ELECTRICAL				
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500-660	475	500-650
D150	Dielectric Constant at 1 kHz	2.25	2.2-2.36	2.3
D150	Dissipation Factor at 1kHz	0.0005-0.0018	0.0017	
D257	Volume Resistivity (ohm-cm) at 50% RH	8.5 x 10 ⁻¹⁴	2 x 10 ⁻¹⁶	1015
D495	Arc Resistance (sec)	160	100	

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