

GENERAL PROPERTIES OF POLYPROPYLENE

Polypropylene is a derivative of olefin, which has excellent resistance to most acids and alkalis with exception of elevated temperature exposure to chlorosulfonic acid, concentrated nitric acid and certain oxidizing agents.

GENERAL PROPERTIES	
Average tenacity range of 4 - 7 grams per denier.	
Ultimate Elongation of 14 – 30%	
Specific Gravity is 0.90 – 0.91, polypropylene floats	
The degree of stiffness can be modified by additives and production techniques.	
Polypropylene is mildew and insect resistant	
Excellent resistance to most acids alkalis with the exception of chlorosulfonic acid and oxidizing agents.	
Generally good resistance to bleaches and solvents	
THERMAL PROPERTIES	
OPERATING TEMPERATURE	Maximum 180°F
SOFTENING TEMPERATURE	300°F - 310°F
MELTING TEMPERATURE	325°F - 335°F
SHRINKAGE	Shrinkage at boil, 3 – 9% Shrinkage at 250°F, 5 – 12.5%
BURNING CHARACTERISTICS	Melts: Burns slowly, curls and melts, shrinks rapidly in a flame. Smells: Faint smell of burning asphalt. After Burn: Hard, round, light tan