

PE Extruded Unbonded Strand

(Seven-Wire Steel Strand with Grease and Polyethylene Plastic Sheath)

PE Extruded Strands are produced to suit unbonded post-tensioning systems. Mechanical properties of the bare strands are the same as PC Strands.

Standard Specification of Sheathing

Pre-stressing Steel 7-wire strand	Pre-stressing Steel 7-wire strand	Pre-stressing Steel 7-wire strand	Pre-stressing Steel 7-wire strand	Pre-stressing Steel 7-wire strand
	mm (inch)	mm (inch)	mm (inch)	mm (inch)
12.70 mm. (1/2 inch.)	15.70 (0.62)	1.0 (0.040)	32 (0.34)	850 (0.57)
12.90 mm. (1/2 inch.)	15.90 (0.63)	1.0 (0.040)	32 (0.34)	8.70 (0.59)
15.20 mm.(6/10 inch.)	18.20 (0.72)	1.0 (0.040)	45 (0.48)	1,200 (0.81)

* Remark: Physical properties of the pre-stressing steel for the above tendons are the same as those of PC Strand

Properties of plastic sheath

	Testing Method	Property
Tensile Strength (kg./sq.cm.)	ASTM D638	350
Elongation (%)	ASTM D638	500
Stiffness (kg./sq.cm.)	ASTM D747	11,000
Softening Point (c)	ASTM D1525	125
Hardness (Shore D)	ASTM D2240	64

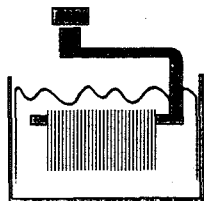
Properties of grease

	Testing Method	Property
Consistency at 250 C	ASTM D217	365
Dropping Point (0C)	ASTM D586	181
Free Alkali (%wt.)	IP 37	0
Salt Spray Test	ASTM B117	96

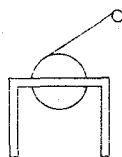
Manufacturing Process



WIRE ROD



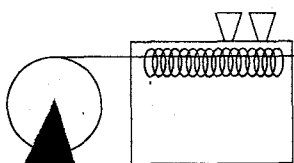
PICKLING



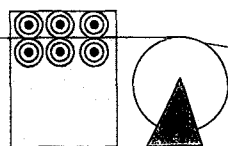
DRAWING



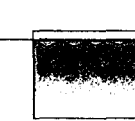
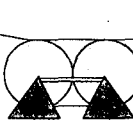
STRANDING



GREASE FILLING & PE EXTRUSION



RECOILING ON LAYER WINDER



STABILIZING (THE STRAND)

