

TECHNOLOGIES TRANSFERRED FROM ISRO

TT / 2004 / VSSC

PDMS BASED SYSTEMS

(Technology Transferred to M/s ANABOND Pvt. Ltd.)

ISRO developed the know how for the synthesis of thermal protection systems based on Poly Di Methyl Siloxane (PDMS). These siloxanes are used in launch vehicle systems as well as in launch pedestal areas for thermal protection and flame retardant applications. Siloxane polymers find applications in other sectors as well. SESCO – 125, PMC-30, PC-10 etc are few of the thermal protection system.

PC-10 is a coating based on polydimethylsiloxane, silica filler and other additives. It has good thermal stability and aging characteristics. PMC -30 is a low density thermal protection system based on Polydimethylsiloxane, phenolic micro balloons and other additives. SESCO – 125 is a flame retardant coating based on Polydimethylsiloxane, silicon carbide and other additives. It is used in launch pedestals.

For further details, please contact:

Director
Technology Transfer & Industry Cooperation (TT&IC)
ISRO Headquarters
"Antariksh Bhavan"
New BEL Road
Bangalore - 560 094



2009