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## **SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER (PRINTED MILK POUCH)**

**DISSOLUTION OF PRINTED  
MILK POUCH IN SOLVENT**

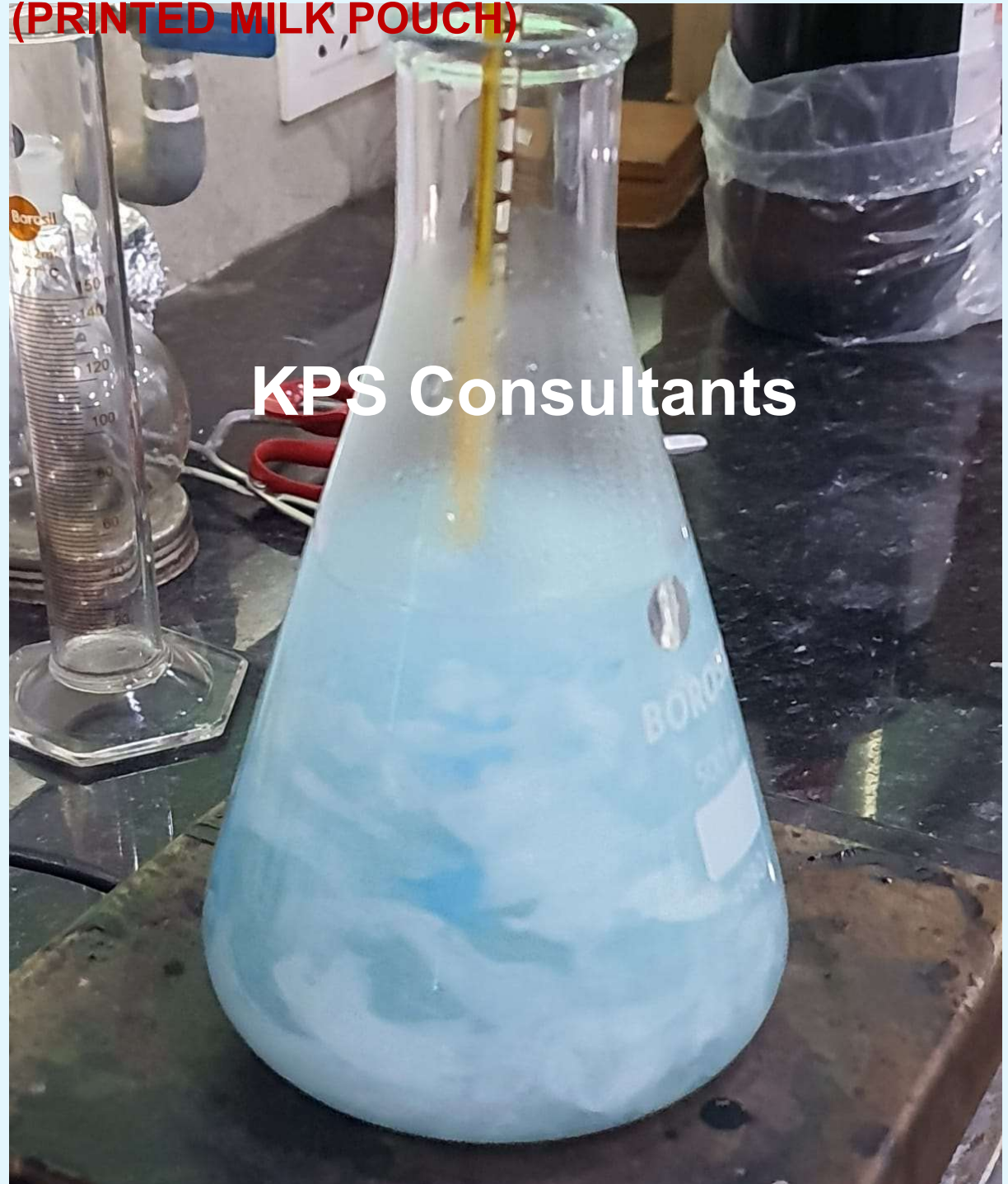


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# SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER

(PRINTED MILK POUCH)



**KPS Consultants**

**DISSOLUTION PROCESS  
STARTS IN FEW MINUTES**





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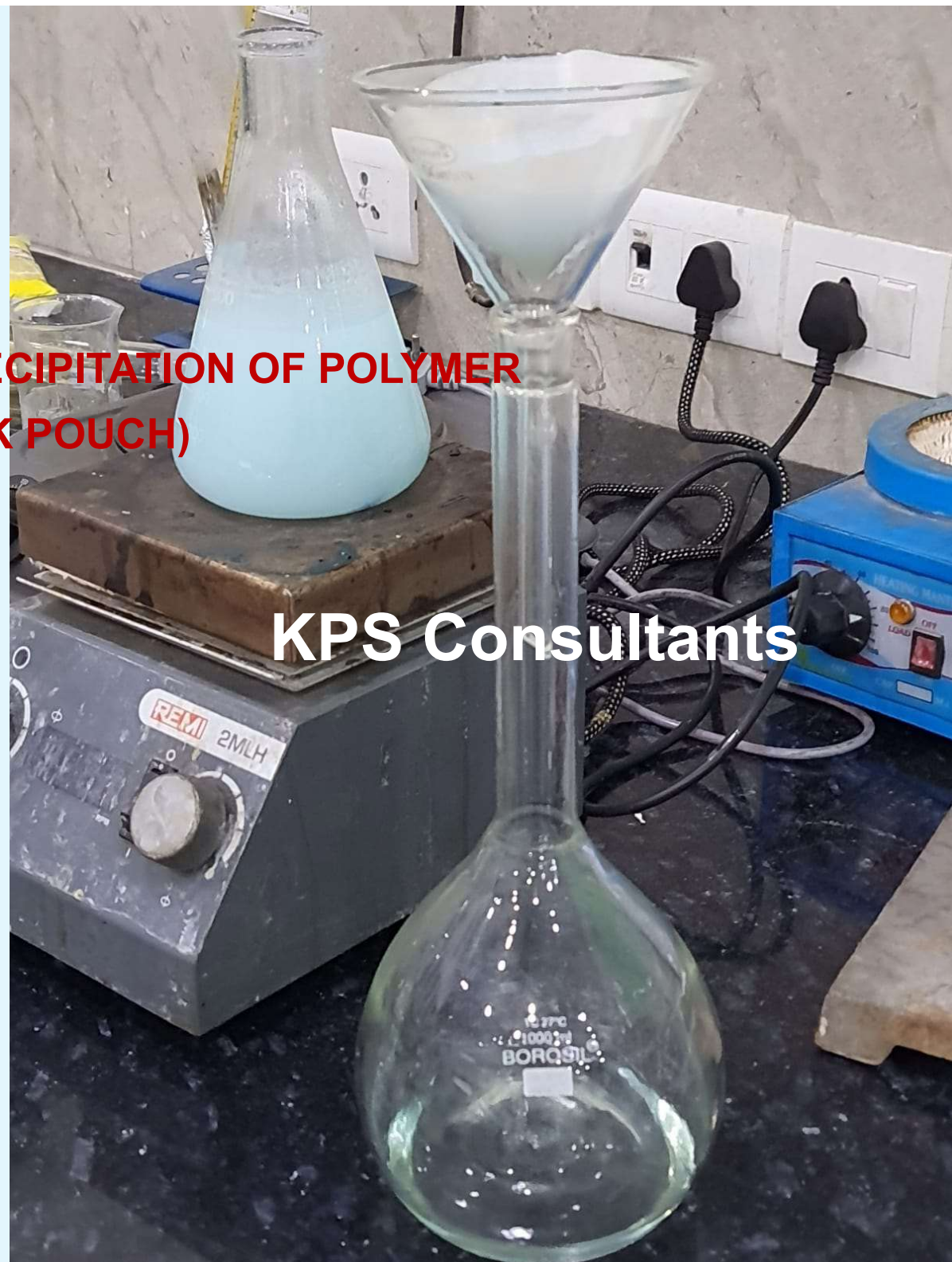
**DISSOLUTION PROCESS  
COMPLETE**



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## **SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER (PRINTED MILK POUCH)**

**FILTRATION OF  
PRECIPITATED POLYMER  
FROM SOLVENTS**



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# SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER (PRINTED MILK POUCH)

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**PRECIPITATED POLYMER  
FRACTION FILTERED  
FROM SOLVENTS**

**KPS Consultants**





# SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER (PRINTED MILK POUCH)

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**RECOVERED POLYMER  
FRACTION & SOLVENT MIX**







## **SOLVENT DISSOLUTION & PRECIPITATION OF POLYMER (PRINTED MILK POUCH)**

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**THE RECOVERED POLYMER IS NEXT DRIED TO REMOVE SOLVENTS AND EXTRUDED INTO PELLETS**

**THE SOLVENT MIX IS DISTILLED TO RECOVER THE PURIFIED SOLVENTS FOR REUSE**

**WE ARE WORKING ON THE MASS BALANCE i.e. PURE POLYMER (LDPE / LLDPE) RECOVERED FROM GIVEN WEIGHT OF PRINTED MILK POUCH**

**TESTING OF RECOVERED POLYMER FOR FOOD GRADE APPLICATIONS – DSC, FTIR, TGA, PRESENCE OF HEAVY METALS, INK RESIDUE, FILM MIGRATION TESTING ETC.**

