Delpowder™

805A & 70H

- Viscosity modifier-

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What is Delpowder™ ?

Delpowder™

Delpowder™ 805A and 70H are viscosity modifier grades.
They come in forms of PMMA beads which have excellent solubility in acrylate monomer or some solvents.

805A : The new Delpowder™ grade has a higher molecular weight.
　　　Lesser amounts of 805A is thus needed to increase the viscosity to the same level compared to 70H.

　　Features
　　　　(1)High viscosity
　　　　(2) Packaging that prevents moisture absorption
　　　　(3) Less odor
　　　　(4) Low in impurities
　70H：A middle level molecular weight Delpowder™.
　　It has long history and is widely used by Japanese and Asian adhesive suppliers.

Table1. Typical properties

	805A	70H	Method
Solution viscosity (25℃)	143cm^3/g	70cm^3/g	Asahi KASEI PMMA Method (See ISO 1628-6)
Average beads diameter	200μm	400μm	ISO 13320
Moisture content	0.2%	0.5%	ISO 760

※Reference value, not standard values or guaranteed values
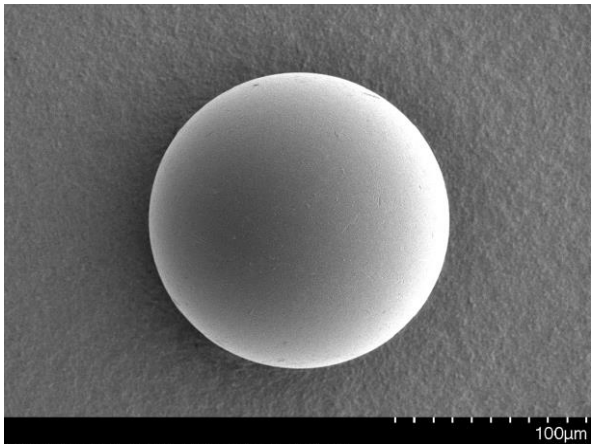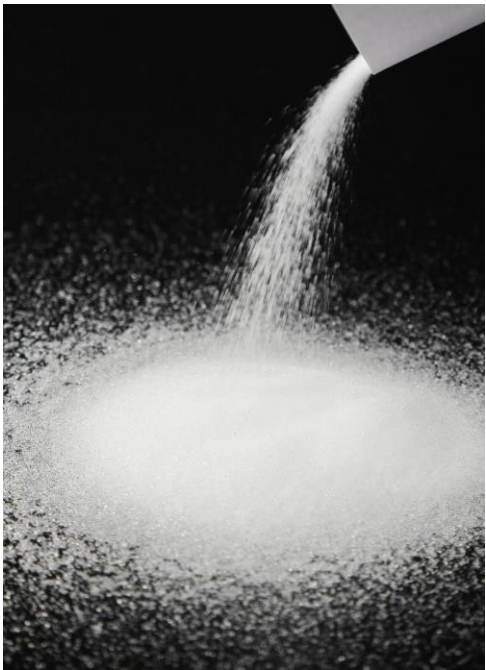
(1) High viscosity

Delpowder™ is used as a viscosity control agent
  1) Viscosity of adhesives increases with the addition of Delpowder™ .
  2) As the molecular weight of Delpowder™ increases, the viscosity of the adhesive also increases.

The use of 805A can reduce the amount of PMMA required when compared to 70H, due to its higher molecular weight.
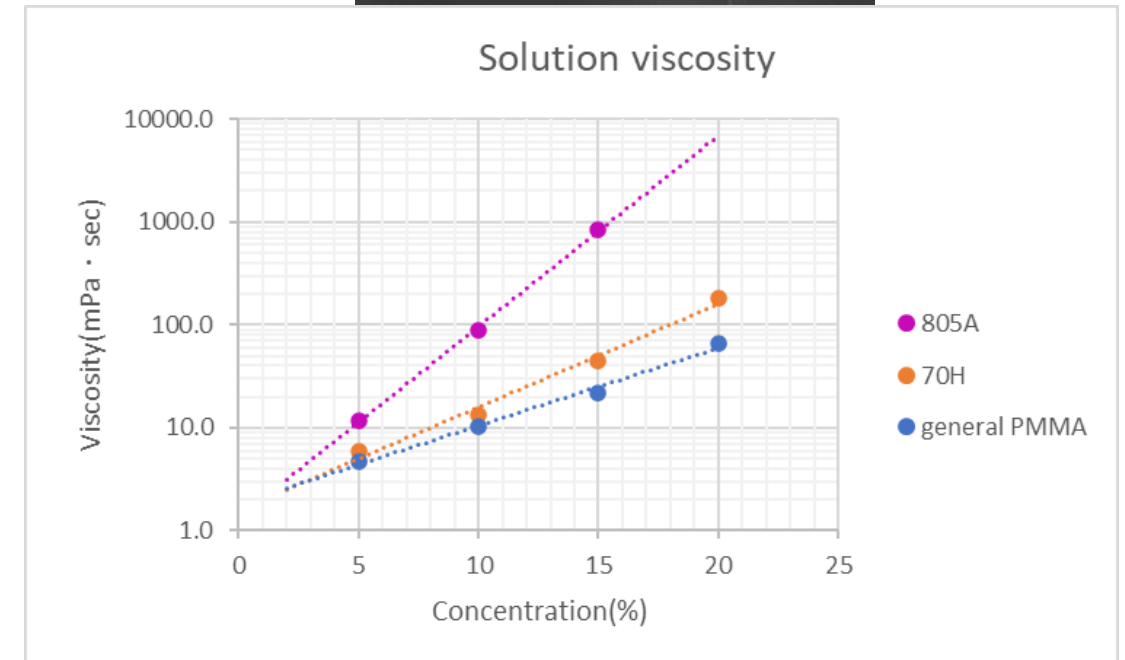
Fig.1 Solution viscosity

Solvent：Methyl Methacrylate
Measurement temperature：25℃
Device：B type viscometer (BROOKFIELD)
※Reference value, not standard values or guaranteed values

(2) packaging, (3)Less odor, (4)low in impurities

805A is packaged to prevent moisture absorption and maintains a low moisture content even after long-term storage.
Figure 2 shows the changes in moisture content.

Odor levels of 805A was further improved by redesigning the PMMA composition.

805A is a grade with significantly fewer impurities from sub-raw materials than 70H due to Asahi KASEI's superior composition and process design.
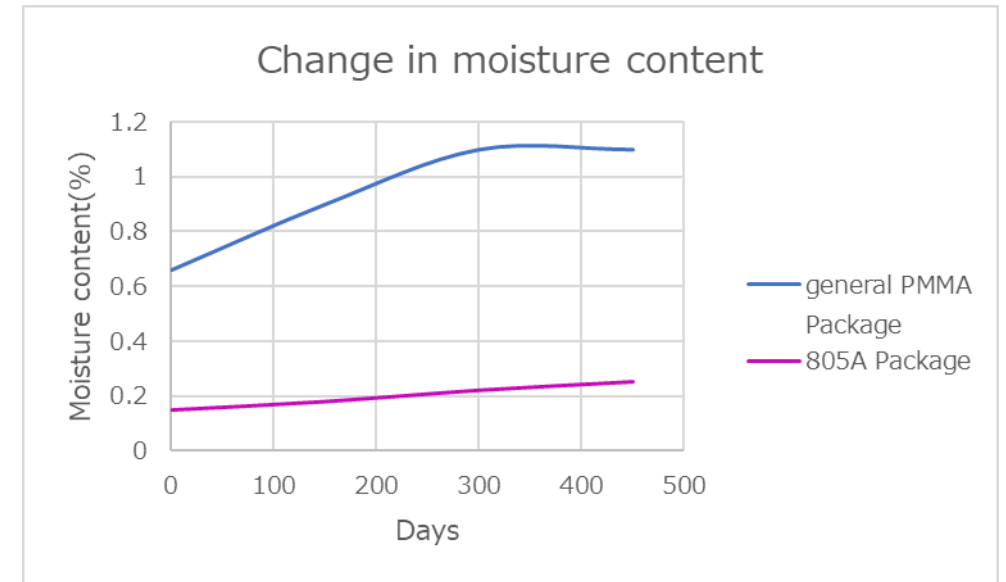

Fig2. Change in moisture content

Storage conditions: Store in ordinary warehouse
Moisture Determination: Dry Weight Method
※Reference value, not standard values or guaranteed values

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