



Hair Molding Cream with Intelimer® 8600 Polymer **Formulating Guide No. H003**

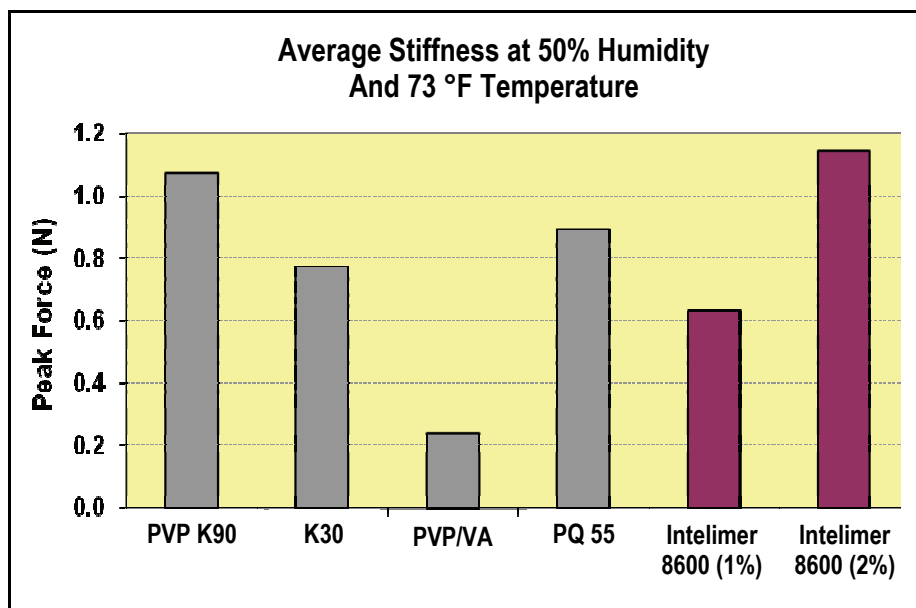
Description

Hair Molding Cream with Intelimer 8600 polymer is designed to give weightless styling and long lasting hold properties with exceptional smoothness. Intelimer 8600 polymer provides the ability to style-restyle the hair without reapplication of finished product. This formulation can be used effectively with a curling iron or flat iron.

Typical Properties

(not to be used as specifications)

Appearance	White emulsion
pH	4.2
Stability	Passed 4 month 50°C
Viscosity (cPs) Brookfield RVT, 10 RPM, 25 °C, Spindle D)	21,000-24,000



An Instron Texture Analyser with 3-point bend fixture was used on hair tresses coated with different styling agents. Each hair tress was rested on two supports that were 50.8mm apart (2.0 inches). As evident from above, a styling cream based on Intelimer 8600 shows very good performance when compared with competing alternatives.

Ingredient / Trade Name	INCI Designation	%W/W	Function	Supplier
Phase A				
Crodafos® CES	Cetearyl Alcohol (and) Dicetyl Phosphate (and) Ceteth-10 Phosphate	6.0	Emulsifier	Croda
Abil® OSW5	Cyclopentasiloxane (and) Dimethiconol	2.5	Conditioner	Degussa
Isopropyl Myristate	Isopropyl Myristate	10.0	Emollient	
Jojoba Oil	Simmondsia Chinensis (Jojoba) Oil	0.5	Conditioner	Desert Whale
SF 1204	Cyclotetrasiloxane and Cyclopentasiloxane	4.3	Emollient	Momentive
Wheat Germ Oil	Triticum Vulgare (Wheat) Germ Oil	0.5	Conditioner	Desert Whale
Phase B				
Deionized Water	Water (Aqua)	66.6	Diluent	
Keltrol® CG-T	Xanthan Gum	0.8	Thickener	CP Kelco
Intelimer 8600	C8-22 Alkyl Acrylate/Methacrylic Acid Cross Polymer	6.2	Fixative	Air Products
Dow Corning® 193 Fluid	PEG-12 Dimethicone	2.0	Conditioner	Dow Corning
Glydant®	DMDM Hydantoin	0.5	Preservative	Lonza
Triethanolamine	TEA (99%)	0.1	Neutralizer	Ashland

Procedure

1. Combine Phase A ingredients in a vessel and heat with agitation to 75-80 °C.
2. Disperse Xanthan Gum in Deionized Water in a separate vessel.
3. Add remaining Phase B ingredients into above vessel and heat with agitation to 75-80 °C.
4. Slowly add Phase A to Phase B while mixing.
5. Cool to desired fill temperature and package.

For Samples or More Information

If you would like additional information or technical assistance in preparing specific formulations, write or call Air Products and Chemicals, Inc.

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