

KETJENFLEX® 8 Applications

Introduction

KETJENFLEX® 8 unique liquid sulfonamide chemistry can be used in various applications. Few plasticizers are compatible in such a wide variety of resins as KETJENFLEX® 8. It is useful for nitrocellulose, polyvinyl acetate, rosin esters, MS-polymers, epoxy resins and polyurethanes. Because of its high polarity, it is also compatible with resins normally more difficult to plasticize, such as nylon and other polyamides, shellac, cellulose acetate, zein and protein materials.

Because of its negligible solubility in petroleum hydrocarbons, KETJENFLEX® 8 may be used to produce grease- and oil-resistant coatings and adhesives. Nitro-cellulose lacquers with improved resistance to grease and aliphatic hydrocarbons may be made by combining KETJENFLEX® 8 with KETJENFLEX® MH (a sulfonamide-formaldehyde resin).

In nylon and other polyamides KETJENFLEX® 8 aids processing by lowering the melting point and improving low-temperature flexibility. Cellulose acetate plasticized with KETJENFLEX® 8 has a brilliance and polish not obtained with other plasticizers. Sheets and films with KETJENFLEX® 8 have a high tensile strength, elongation, and flexibility.

Polyvinyl acetate adhesives plasticized with KETJENFLEX® 8 show exceptional grease resistance, and have a quick tack and good adhesion for joining difficult surfaces, such as rubber to metal.

The table below gives a qualitative summary of existing applications of KETJENFLEX® 8.

Resin	Market Application	Added value	Leaflet (AXC.)
PVAC	A Quick tack adhesives	<ul style="list-style-type: none"> Flexibility Grease resistance Better adhesion metal to rubber 	
Polyamide/ polyester	A Hotmelt adhesives	<ul style="list-style-type: none"> Processability Lower viscosity of hotmelt 	
MS-polymers	A As sealant prior to PU acrylic primer coating	<ul style="list-style-type: none"> Improved overcoatability of MS-polymer Shorter tack free time 	
Nitrocellulose	C Wood coatings	<ul style="list-style-type: none"> High flexibility Excellent gloss Stain resistance 	54.02
Polyamide for Epoxy	C Anticorrosive coatings	<ul style="list-style-type: none"> Viscosity reduction of high mw polyamide (B-part) Non-reactive at room temperature 	

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Rosin	C	Ablative Antifouling coatings	<ul style="list-style-type: none"> • Smoothness of film • More gradual ablation of coating in time 	28.02 30.02 51.02
Vinyl resins (PVC/VAc)	P	Heatseal lacquers	<ul style="list-style-type: none"> • Higher bond strength • Good temperature resistance at 180°C, 200°C sealing temperatures 	58.01
Nitrocellulose/ Polyurethane	P	Lamination Inks	<ul style="list-style-type: none"> • Adhesion promotion PP,PET films 	29.02 44.01
Nitrocellulose/ Polyurethane	P	Overprint varnish	<ul style="list-style-type: none"> • Gloss and shine 	
Nitrocellulose	CS	Nail lacquer	<ul style="list-style-type: none"> • Flexibility • Toughness • Gloss 	
CAB	PL	Sheets and tubes	<ul style="list-style-type: none"> • Add to brilliance, polish and aesthetics • Good water and scuff resistance • Oil-proof ness • Good CAB forming and processing properties 	
Polyester	PL	Films for OLED TV	<ul style="list-style-type: none"> • Flexibility • Optical properties 	
Polyurethane	CP	PU-systems	<ul style="list-style-type: none"> • Flexibility • Processability 	
Epoxy systems	A CP	Composites and adhesives	<ul style="list-style-type: none"> • Flexibility of system • Increased toughness • No effect on strength • Reactive/internal plasticizer in thermosets 	

A: Adhesives-Sealants C: Coatings P: Packaging CS: Cosmetics PL: Plastics CP: Composites

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