



**THE PERFORMANCE
& CUSTOMIZATION
YOU NEED.
THE SOLUTIONS
YOU SEEK.**

Honeywell Specialty Additives – Processing Aids

Honeywell



THE SOLUTIONS YOU SEEK

Honeywell Specialty Additives is the world's first commercial manufacturer of low molecular weight polyolefin polymers and the innovator of formulated wax blends for the PVC industry. Our network of Application Laboratories in the U.S., India and China distinguishes us as a leading solutions provider with capabilities to serve our customers around the world.

These labs are equipped with a wide variety of extrusion equipment and extensive analytical capabilities to service the PVC processing, color master batch and plastics industries. Our chemists and engineers have many years of industry experience in the applications we serve and are highly skilled at formulating products that meet your individual needs.

We blend creativity and customization to deliver the solutions you seek.

PRODUCT FEATURES & BENEFIT GUIDE

A-C® Performance Additives is the most recognized brand from one of the leading manufacturers of low molecular weight polyethylene polymers for the Plastics industry. We help you develop a performance solution by translating your needs into functional requirements. Using our scale and know-how, we manufacture products that deliver that functionality consistently. The A-C product line includes homopolymers, oxidized homopolymers, copolymers, and functionally grafted polymers.

A-C® PERFORMANCE ADDITIVES

COLOR CONCENTRATES

Potential product design and process benefits:

- Improved output rates
- Reduced maintenance costs
- Flexibility in manufacturing
- Higher pigment loading
- Convenient product forms
- Improved pigment dispersion
- Higher chroma
- Broad resin compatibility

Potential end user advantages:

- Reduced pigment costs
- Improved pigment dispersion in film and fiber
- More pigments available for use in applications
- Greater flexibility in design of colored products
- Higher color strength

PLASTICS

Potential product design and process benefits:

- Improved dispersion of fillers and impact modifiers
- Reduced power consumption
- Increased extrusion speeds
- Effective nucleating agent for expanded polystyrene

Potential end user advantages:

- Greater impact strength
- Reduced operating costs
- More uniform part surface appearance
- Improved release performance

RHEOCHEM® PVC lubricants have been recognized as the leading brand of customized wax blends in the rigid PVC industry for over 35 years. Honeywell's broad portfolio of specialized lubricants offers chemistries that include paraffin and hydrocarbon waxes, fatty acid esters and amides, specialty stearates, and oxidized or non-oxidized low molecular weight polyethylenes.

RHEOCHEM® PVC LUBRICANTS

PVC PROCESSING

Potential product design and process benefits:

- Improved batch to batch consistency
- Increased melt consistency, fusion control, metal release and compound powder flow
- Improved melt temperature control
- Reduced extruder amperage
- Reduced plate-out

Potential end user advantages:

- Reduced line adjustments
- Enhanced surface appearance
- Reduced screw marks and wavy pipe
- Reduced scrap rates
- Improved production rates
- Improved dimensional stability
- Reduced operating costs

This guide highlights our typical product offerings; however Honeywell's technical expertise coupled with creativity in the delivery of solutions can bring you a material to satisfy your individual needs. For more information please visit us at www.acwax.com & honeywell-additives.com.

A-C® POLYETHYLENES & COPOLYMERS	METTLER DROP POINT (ASTM D-3954)	HARDNESS DMM (ASTM D-5)	DENSITY G/CC (ASTM D-1505)	VISCOSITY CPS @140°C BROOKFIELD	SAPONIFICATION # MG KOH/G (ASTM D-1386)	PHYSICAL FORM
Homopolymers						
A-C 3A	112°C 234°F	2.0	0.92	450	Nil	Powder
A-C 6, 6A	106°C 223°F	4.0	0.92	375	Nil	Prills, Powder
A-C 8, 8A	113°C 235°F	1.0	0.93	450	Nil	Prills, Powder
A-C 9, 9A	115°C 239°F	0.5	0.93	450	Nil	Prills, Powder
A-C 16A	102°C 216°F	5.5	0.91	525	Nil	Powder
A-C 617, 617A	101°C 214°F	7.0	0.91	180	Nil	Prills, Powder
Low-Density Oxidized Homopolymers						
A-C 629, 629A	101°C 214°F	5.5	0.93	200	15	Prills, Powder
A-C 680, 680A	108°C 226°F	1.5	0.95	250	16	Prills, Powder
High-Density Oxidized Homopolymers						
A-C 307, 307A	140°C 284°F	<0.5	0.98	85000	7	Granule, Powder
A-C 316, 316A	140°C 284°F	<0.5	0.98	8500 ¹	16	Granule, Powder
A-C 325	136°C 277°F	<0.5	0.99	4400 ¹	25	Granule
A-C 330	137°C 279°F	<0.5	0.99	3600 ¹	30	Granule
A-C 392	138°C 280°F	<0.5	0.99	4500 ¹	30	Granule
Copolymers/ Ethylene-Acrylic Acid						
A-C 540, 540A	105°C 221°F	2.0	0.93	575	40	Prills, Powder
Copolymers/ Ethylene-Vinyl Acid						
A-C 400, 400A	92°C 198°F	9.5	0.92	500	13% Vinyl Acetate	Prills, Powder

ACLYN® LOW MOLECULAR WEIGHT IONOMERS	MELTING POINT 2	CATION TYPE	ACID NUMBER MG KOH/G	VISCOSITY CPS @140°C BROOKFIELD	PHYSICAL FORM
AClyn 201P, 201A	102°C 215°F	Ca	42	5500	Pastilles, Powder
ACLYN 285P, 285A	82°C 180°F	Na	20	80000	Pastilles, Powder

MODIFIED OLEFIN PRODUCTS	METTLER DROP POINT (ASTM D-3954)	HARDNESS DMM (ASTM D-5)	DENSITY G/CC (ASTM D-1505)	VISCOSITY CPS @140°C BROOKFIELD	SAPONIFICATION # MG KOH/G	PHYSICAL FORM
Ethylene Maleic Anhydride Copolymers						
A-C 573P, 573A	106°C 223°F	4.5	0.92	600	5	Pastilles, Powder
Propylene Maleic Anhydride Copolymers						
A-C 597P, 597A	143°C 290°F	<0.5	0.94	500	80	Pastilles, Powder
A-C 950P	153°C 307°F	<0.5	0.93	2000	43	Pastilles

POLYPROPYLENE HOMOPOLYMERS	METTLER DROP POINT (ASTM D-3954)	HARDNESS DMM (ASTM D-5)	DENSITY G/CC (ASTM D-1505)	VISCOSITY CPS @140°C BROOKFIELD	SAPONIFICATION # MG KOH/G	PHYSICAL FORM
A-C 1089	146°C 295°F	<0.5	0.91	45	Nil	Powder
A-C 1662	150°C 302°F	<0.5	0.89	60	Nil	Powder

Environmental Considerations: A-C polyethylenes and specialty additives are essentially inert and insoluble in water. Materials may be disposed of as non-hazardous solid organic waste. Spillage is not expected to cause adverse environmental effects.

Safety Precautions: A-C polyethylenes and specialty additives are non-hazardous at ambient temperatures. Consult Material Safety Data Sheets for complete information.

Packaging /Shipping : A-C polyethylenes and specialty additives are typically supplied in 25 kg four-ply kraft bags. Products in bags are shipped on pallets, 40 bags to a pallet, net weight 1,000 kgs, and stretched-wrapped. Pallet loads are approximately 51 inches long, 44 inches wide, and up to 57 inches high, depending on product and bulk density. Special packaging is available to meet customer requirements.

¹Measured at 150°C

²Determined by Differential Scanning Calorimetry

Honeywell is continually developing innovative lubricant and additive technology for vinyl pipe, window, door profile and siding extrusion applications. Rheochem Lubricant Systems are available as standard products but are typically designed as customized formulations to meet individual customer requirements. Honeywell's tailored solutions enable our customers to reach peak production and superior product performance.

RHEOLUB® PARAFFIN & HYDROCARBON LUBRICANTS	CONGEALING POINT	VISCOSITY @ 99°C (210°F)	"ACID # (MG KOH/G)"	SPECIFIC GRAVITY	COLOR	NSF/PPI STATUS ²	USAGE LEVEL RANGE	VISCOSITY BATH TEMP.
RL-165	69°C 156°F	6.7 cSt	N/A	0.91	White	Y	0.80-1.50 phr ³	210 F
RL-165 CODE 010	71°C 160°F	7.5 cSt	N/A	0.91	White	Y	0.80-1.50 phr ³	210 F
RL-250	72°C 162°F	8.6 cSt	N/A	0.91	White	Y	0.80-1.50 phr ³	210 F
RL-185	88°C 191°F	7.8 cSt @ 240 °F	N/A	0.91	White	N	0.80-1.50 phr ³	240 F

RHEOLUB® LUBRICANT SYSTEMS	CONGEALING POINT	VISCOSITY @ 99°C (210°F)	"ACID # (MG KOH/G)"	SPECIFIC GRAVITY	COLOR	NSF/PPI STATUS ²	USAGE LEVEL RANGE	VISCOSITY BATH TEMP.
RL-315 code S	76°C 168°F	13.3 cSt	1.5	0.91	White	Y	0.70-1.50 phr ³	210 F
RL-410	74°C 165°F	12.7 cSt	1.5	0.91	White	Y	0.70-1.65 phr ³	210 F
RL-510	104°C 220°F	22 cSt @ 260 °F	1.6	0.92	Off White	N	0.70-1.75 phr ³	260 F
RL-910	N/A	45 cSt @ 240 °F	2.4	0.90	Off White	N	0.70-1.20 phr ³	240 F

RHEOLUB® SPECIALTY STEARATES & ESTERS	MELTING POINT	VISCOSITY @ 116°C (240°F)	"ACID # (MG KOH/G)"	SPECIFIC GRAVITY	COLOR	NSF/PPI STATUS ²	USAGE LEVEL RANGE	VISCOSITY BATH TEMP.
RL-710	34°C 94°F ¹	77 cSt	14	0.88	Tan	N	0.25-1.50 phr ³	240 F
RL-720	57°C 135°F ¹	15 cSt	24		Tan	Y	0.60-1.50 phr ³	240 F
RL-830	54°C 129°F ¹	8.8 cSt	6	0.88	Tan	N	0.50-1.50 phr ³	240 F
RL-1800 code 010	N/A	250 cSt	17	0.97	Tan	Y	0.50-1.50 phr ³	240 F
RL-1800 code 020	N/A	200 cSt	19	0.96	Tan	Y	0.50-1.50 phr ³	240 F

LUBRICANT PACKAGES	CONGEALING POINT	VISCOSITY @ 116°C (240°F)	"ACID # (MG KOH/G)"	SPECIFIC GRAVITY	COLOR	NSF/PPI STATUS ²	USAGE LEVEL RANGE	VISCOSITY BATH TEMP.
TLP-2030	N/A	32 cSt	10	0.93	Slightly Yellow	Y	1.70-2.50 phr ³	240 F
TLP-2620	N/A	85 cSt @ 260 °F	9	0.93	Slightly Yellow	Y	1.65-2.30 phr ³	260 F
TLP-4007	N/A	370 cSt	16	0.92	Light Tan	N	1.70-2.50 phr ³	240 F
FLP-3540	N/A	140 cSt	18	0.95	Light Tan	N	3.00-3.50 phr ³	240 F

HIGH PERFORMANCE LUBRICANT™ PACKAGES	CONGEALING POINT	VISCOSITY @ 116°C (240°F)	"ACID # (MG KOH/G)"		COLOR	NSF/PPI STATUS ²	USAGE LEVEL RANGE	VISCOSITY BATH TEMP.
HPL-3118	N/A	225 cSt @ 260 °F	31		Light Tan	N	1.60-2.20 phr ³	260 F
HPL-6546	N/A	200 cSt @ 260 °F	22		Light Tan	N	1.60-2.20 phr ³	260 F
HPL-6805	N/A	79 cSt	28		Tan	N	0.90-1.25 phr ³	240 F
HPL-6830	N/A	37 cSt	20		Yellow	N	1.60-2.20 phr ³	240 F
HPL-6860	N/A	25 cSt @ 260 °F	21		Yellow	N	1.60-2.20 phr ³	260 F
HPL-6880	N/A	23 cSt @ 260 °F	21		Yellow	N	1.60-2.20 phr ³	260 F
HPL-6873	73°C 164°F	16 cSt	7.7		Light Tan	N	2.50-3.50 phr ³	240 F

Packaging /Shipping : RHEOCHEM® lubricants are in prilled form and typically supplied in 55 lb. kraft bags. Products in bags are shipped on pallets, 40 bags to a pallet, net weight 2,204 lbs, and stretched-wrapped. Pallet loads are approximately 51 inches long, 44 inches wide and up to 57 inches high depending on product and bulk density. Special packaging is available to meet customer requirements.

¹DSC Melting Point

²NSF International/Plastics Pipe Institute

³Parts per hundred resin

For additional information

or to contact us, please visit:

[honeywell-additives.com](https://www.honeywell-additives.com)

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**THE
FUTURE
IS
WHAT
WE
MAKE IT**

Honeywell