

Viscometers within quality assurance systems

Business sector	Product	Example
Automotive engineering	motor oil (fresh and used) high polymer plastics	bumpers
Brewery	original wort hop-wort	beer beer
Electrical engineering and electronics	high polymer plastics of all types	chips, casings
Power supply	turbine oil transformer oil	generators
Film	gelatine as pigment-bearing agent carrier film for film material	color films
Plastics manufacturers	high polymer plastics of all types	
Plastics processors	high polymer plastics of all types	injection molding
Food industry	starch gelatine packaging materials milk products fruit and fruit juice concentrates gelatinizing agents	instant flour thickeners jelly bears yoghurt containers yoghurt drink pectin
Aviation	high polymer plastics of all types fuels hydraulic fluids	kerosene horizontal stabilizers and undercarriages
Mechanical engineering	mold oil hardening emulsions hydraulic fluids	mill trains stamp shops
Medicine	body fluids injection solutions tinctures and drops blood substitute materials	blood, bile insulin nose, eyes blood plasma
Mineral oil	light motor oil turbine oil liquid fuels of all types	gasoline, diesel fuel
Textile	high polymer plastics of all types cotton	for mixed fibers
Entertainment	high polymer plastics	CDs, videotapes

The table on the right illustrates the extensive area of high polymer plastics and the large variety of testing methods.

Polymer applications for the AVS measurement systems

Polymers, their applications and utilization of automatic systems from SCHOTT Instruments GmbH

Type	Abbr.	Solvent	Capillary	Operating temperature	Standards	Suitability of the AVS measurement systems			
						VC*	370	470	Pro
Cellulose EWNN	C I	Cuen Couxam	0c CAN CM I Micro	20 °C	SNV 195 598S 15:88				
Cellulose acetate	CA	Dimethyl-chloride/ methanol	0c I I Micro	25 °C	DIN 53 728/1				
Polyamide	PA	Sulphuric acid (96%)	II IIc	25 °C	DIN 53 727 ISO 307				
Polyamide	PA	Formic acid (90%)	I Ic	25 °C	DIN 53 727 ISO 307				
Polyamide	PA	m-cresol	II IIc	25 °C	DIN 53 727 ISO 307				
Polybutylene terephthalate	PBT	Phenol/dichloro benzene (50:50)	Ic II	25 °C	DIN 53 728/3 ISO 1628-4				
Polycarbonate	PC	Dichloromethane	0c I	25 °C	DIN 7744/2 ISO 1628-4				
Polyethylene	PE	Decahydro-naphthalene	I Ic	135 °C	DIN 53 728/5 ISO 1191 ASTM D 1601				
Polyethylene terephthalate	PET	m-cresol	II IIc IIc Micro	25 °C	DIN 53 728/3 ISO 1628-5 ASTM D 4603				
Polyethylene terephthalate	PET	Phenol/dichloro benzene (50:50)	Ic II	25 °C	DIN 53 728/3 ISO 1628-5 ASTM D 4603				
Polyethylene terephthalate	PET	Dichloroacetic acid	II IIc Micro	25 °C					
Polymethyl methacrylate	PMMA	Chloroform	0c I	25 °C	DIN 7745/2 ISO 1628-6				
Polymethyl methacrylate	PMMA	Acetophenone	0c I	25 °C	DIN 7745/2 ISO 1628-6				
Polypropylene	PP	Decahydro-naphthalene	IIc	135 °C	DIN 53 728/4 ISO 1191				
Polyphenyl sulphide	PPS	Ortho dichloro naphthalene	IIc	230 °C					
Polystyrene	PS	Toluene	I Ic	25 °C					
Polysulphone	PSU	Chloroform	IIc	25 °C					
Polyvinyl chloride	PVC	Cyclohexanone	IIc	25 °C	DIN 53 726 ISO 1628-2 ASTM D 1243				
Styrene-acrylonitrile copolymer	SAN	Ethyl methyl ketone	0c I	25 °C					
Styrene-butadiene copolymer	SB	Toluene	0c I	25 °C					

VC* = ViscoClock

excellent suitability; can be used; limited suitability for application related reasons.

This table makes no claim to completeness.