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EVATANE® 40-55

COPOLYMER Ethylene – Vinyl Acetate (VA) with high content of VA

Description

EVATANE® 40-55 is a random copolymer of Ethylene and Vinyl Acetate made by high-pressure radicalar polymerisation process. It's stabilized with antioxidants and contains slip and antiblock additives.

Main application

The High Vinyl Acetate content of **EVATANE® 40-55** brings softness, flexibility, polarity and high solubility. **EVATANE® 40-55** is compatible with tackifying resins and waxes. Combined with a high fluidity, it's a useful product for hot melt adhesives formulation. It can be compounded with high levels of filler for HFFR cable applications. **EVATANE® 40-55** is also a material of choice for solvent base adhesives and inks formulation.

Specified properties

Characteristics	Value	Unit	Test Method
Vinyl Acetate Content	38 - 41	% wt	FTIR (internal)
Melt index (190°C / 2.16 kg)	48 - 62	g/10mn	ASTM D 1238

Physical properties

Characteristics	Value	Unit	Test Method
Density (23°C)	0.96	g/cm^3	ISO 1183
Melting point	54	°C	DSC
Vicat softening point (10 N)	<40	°C	ASTM D 1525 / ISO 306
Elongation at break	900-1100	%	ASTM D 638 / ISO 527
Tensile strength at break	7	MPa	ASTM D 638 / ISO 527
Hardness Shore A	50	-	ASTM D 2240 / ISO 868
Ring and ball temperature	97		ASTM E 28

Processing

EVATANE® 40-55 can be processed on any kind of conventional equipment used for thermoplastics but should not be overheated during processing above 230°C.
EVATANE® 40-55 is soluble in aromatic solvent like toluene, benzene, xylene up to 45% at R.T. and partially soluble up to 15% in MEK, MIBK and DIBK. It is Insoluble in alcohols.

Storage

EVATANE® 40-55 is available in pellet form and commonly packed in 25 kg PE bags on palettes of 1.375 tons. Other packaging can be considered (ask your Arkema's representative).