Technical data sheet Chemicals

REPSOL HEALTHCARE® HVA18G

EVA HVA18G is an ethylene-vinyl acetate copolymer used for the extrusion of medical film and production of medical bags. This material combines easy processability with excellent mechanical and optical properties. It contains antioxidant additives.

Recommended melt temperature below 200ºC to avoid the decomposition of the polymer. Processing conditions should be optimized for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190 °C; 2.16 kg)	2	g/10'	ISO 1133
Vynil acetate content	18	%	Internal (FTIR)
Density at 23ºC	937	kg/m3	ISO 1183
Vicat softening temperature (load 10N)	64	ºC	ISO 306
Melting temperature	87	ºC	Internal (DSC)
Shore A/D hardness	90/38	-	ISO 868
Film (50 µm thickness film, blow up ratio 2.25:1, frost line height 40 cm)			
Dart drop (F_{50})	600	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	200/275	cN	ISO 6368-2
Tensile strength at break (MD/TD)	26/22	MPa	ISO 527-3
Elongation at break (MD/TD)	320/640	%	ISO 527-3
Haze	4	%	ASTM D-1003

EVA HVA18G complies with EP 3.1.3 and 3.1.7., USP 88 class VI Biocompatibility and ISO 10993-4, ISO10993-5, ISO 10993-10, ISO 10993-11. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

EVA HVA18G should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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- This product(s) may not be used in:
  - any U.S. FDA Class I and/or European Union Class I Medical Devices (Non-invasive devices), without prior notification to Seller for each specific product and application
  - the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II and/or European Union Class II Medical Devices:
    - Category IIa: Invasive devices with limited risk: e.g. syringes, lancets, insulin pens.
    - Category IIb: Invasive devices with higher risk: e.g. pouches for dialysis processes.
    - U.S. FDA Class III, and/or European Class III Medical Devices; Category III: Very high risk devices: long-term (> 29 days) or permanent implants, long term (> 29 days) applications in direct contact with any body part or any body fluid.
- Repsol makes no warranties, express or implied, which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose
- Repsol accepts no liability from the use of Repsol products in conjunction with other materials.
- Before using a product sold by Repsol, users should make their own independent determination that the product is safe, lawful and technically suitable for the intended use.

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