



# 1157

## Ethylene Vinylacetate Copolymer

Extrusion Coating Grade

**MELT INDEX** **16.0**

**VA CONTENT** **18.0**

HANWHA EVA 1157 is manufactured by high pressure autoclave process and designed for a variety of extrusion coating applications such as thermal film (laminex film) and flexible film. EVA 1157 is well known for its excellent processability and high quality assurance.

This product complies with U.S. FDA regulation 21 CFR 177.1350(a)(1).

### ■ Outstanding Properties

- Very low heat seal temperature
- Good drawability
- Good adhesion to various plastic films
- Good optical property

### ■ Processing Conditions

- Cylinder: 160 ~ 250°C
- Adapter/Head: 250°C
- T-die: 250°C

### ■ Additives

- Antioxidant

### ■ Physical Properties

Physical Properties	Unit	Test Method	Value
Melt Index	g/10min	ASTM D1238	16.0
VA Content	wt%	HCC Method <sup>(3)</sup>	18.0
Density	g/cm <sup>3</sup>	ASTM D1505	0.939
Vicat Softening Point	°C	ASTM D1525	61
Melting Point	°C	ASTM D3417	85
Tensile Strength at Break	kg/cm <sup>2</sup>	ASTM D638	138
Elongation at Break	%	ASTM D638	860
Brittleness Temperature, F <sub>0</sub>	°C	ASTM D746	<-76
Neck-in <sup>(4)</sup>	cm	-	7.5
Allowable Coating Speed <sup>(4)</sup>	m/min	-	>300
Heat Seal Initiation Temperature <sup>(5)</sup>	°C	-	80



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1. These are typical properties: not to be construed as specification.
2. The value for this property is dependent on part geometry and fabrication conditions.
3. Elemental Analyzer and FT-IR
4. Melt temperature: 260°C, Line speed: 100m/min, Output: 80kg/hr
5. Layer structure: PET(50  $\mu\text{m}$ )/LDPE(25  $\mu\text{m}$ )/EVA 1157(25  $\mu\text{m}$ )  
Time/Pressure of sealing: 1.0sec/2kg/cm<sup>2</sup>



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