

# NOVA™ APR8511-1

## Maleic Anhydride Modified Polyethylene for Steel Composite Pipe

### CHARACTERISTICS

- **Advanced adhesion to substrates**
- **Excellent adhesive durability**
- **Maintain polyethylene property**
- **Compatible with polyethylene and good processibility**

### APPLICATIONS

- **Advanced adhesive resin for steel composited co-extrusion pipe**
- **Co-extrusion of polyethylene with steel and other plastic materials, which need a chemical resistance. Especially, multi-layer pipe as oil and gas pipe application**

### Description

NOVA™ APR8511-1 is especially suitable for multi-layer steel pipe coating systems. Polyethylene based adhesive resin developed by TWO H Chem, NOVA™ APR8511-1 has easy processability, advanced adhesion strength and long durability.

Property	Test Method	Unit	Test Value
Melt Index (190℃ / 2.16kg)	ISO 1133 ASTM D1238	g/10 min	3.4
Density	ISO 1183-3 ASTM D1505	g/cm <sup>3</sup>	0.930
Melting Point (DSC)	ISO 3146 ASTM D3418	℃	124
Vicat Softening Point	ASTM D1525	℃	102
Brittleness Temperature	ASTM D746	℃	< -70
Tensile Strength	ASTM D638	kg/cm <sup>2</sup>	250
Elongation	ASTM D638	%	> 600
Adhesion Strength (to Steel Plate)	TWO H Method	kg/2.5cm	> 25
Visual Appearance	Naturally White Pellet		
Packaging	25 Kg PP Woven Kraft Paper Bag/ PE Inner Bag		

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**Safety and Handling Considerations**

Material Safety Data (MSD) sheets for are available from TWO H Chem Ltd. and its distributors. MSD sheets are provided to help customers satisfy their own handling, safety, and disposal needs, and those that may be required by locally applicable health and safety regulations, such as OSHA (U.S.A.), or WHMIS (Canada). MSD sheets are updated regularly; therefore, please request and review the most current MSD sheets before handling or using any product. All users of our products are urged to retain and use the MSDS. The following comments apply only to materials which are used unmodified and processed according to good manufacturing practices; additives, processing aids or other materials used in formulating, fabrication and/or finishing steps have their own safe-use profile and must be investigated separately.

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