

NF528T (Thailand Production)

Linear Low-Density Polyethylene (L-LDPE) Based Adhesive Resin

GENERAL DESCRIPTION

ADMER™ NF528T is an anhydride modified L-LDPE based adhesive resin, which is primarily designed to bond PE and EVOH together in co-extrusion blown film applications. It is also used in co-extrusion processes such as cast film, cast sheet, blow molding, tubing and pipe applications. ADMER™ NF528T is also designed to bond PE and Aluminum (AL) together in heat lamination applications.

TYPICAL MATERIAL PROPERTIES

Property	Typical Value	Units	ASTM Test Method
Melt Flow Rate (@ 190 °C)	1.8	g/10 min.	ASTM D1238
Density	0.91	g/cm ³	ASTM D1505
Stress at Yield Point	7	MPa	ASTM D 638
Tensile Strength at Break	12	MPa	ASTM D 638
Elongation at Break	>500	Percent (%)	ASTM D 638
Shore Hardness	40	D – Scale	ASTM D2240
Vicat Softening Point	69	°C	ASTM D1525
Melting Point	120	°C	ASTM D3418

Adhesion Strength to EVOH

- 5 layer Blown Film: PE/AD/EVOH/AD/PE 30μ/5μ/5μ/5μ/30μ (@ 15m/min)	8	N/15mm	T-Peel Method, 300mm/min
- 3-layer Heat Sealed Sheet: AL/AD/AL 200μ/100μ/200μ			
Heat Seal Condition: 140°C*0.1MPa*60s	95	N/20mm	180° -Peel Method, 200mm/min
160°C*0.1MPa*60s	110	N/20mm	180° -Peel Method, 200mm/min

PROCESSING PARAMETERS

Processing temperatures of between 200°C and 230°C are suggested for initial evaluations. Maximum processing temperatures should not exceed 300°C. Minimum Temperatures should not fall below 180°C. Additional processing suggestions shall be given when a customer's equipment and process conditions are known. Contact your Mitsui Chemicals Sales Representative for additional information.

FOOD CONTACTING REGULATORY STATUS*

1. FDA (USA)

ADMER™ comply with Federal Food, Drug and Cosmetic Act and 21 CFR Section 175.105 (Adhesives).

2. EU Directive (Europe)

The starting monomers and the additives contained in ADMER™ are listed as authorized in the EU Plastics Directive 2002/72/EC and/or its amendments 2004/1/EC, 2004/19/EC, 2005/79/EC, 2007/19/EC, 2008/39/EC and No.975/2009. (Some of the components have specific migration limits.)

3. National Standard of the P.R.C. (China)

The base PE and PP resin of ADMER™ comply with GB9692 and GB9693 respectively. The contained additives are listed in GB9685-2008 (Provisional list).

4. JHOSPA (Japan)

ADMER™ grades made in Japan comply with “the self-restrictive standards for food contacting package – container and utensil made of polyolefins and certain polymers” of Japan Hygienic Olefin and Styrene Plastics Association.

*For further information and details, please contact our sales representatives, since there are some exceptional cases.

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