

**Product Code: TISA adh 1020**

## Product Type:

Polyethylene, High Density, Natural Compound.

## Product Application:

TISA adh 1020 has been designed to be used as the tie layer between FBE layer and the top coat HDPE in 3-layer coated steel potable water pipes, also gas and oil pipes for up to 85° C service temperature of pipeline, when combined with PE (like TIS COAT 3040) and compatible FBE.

## Product Description:

TISA adh 1020 is a maleic-anhydride grafted polyethylene polymer to be extruded with flat die or crosshead. It has excellent adhesion to FBE and many kinds top coat PE as use for steel pipe coating. outstanding processability and high output in extrusion. This product when applied together with the top coat PE like TIS COAT 3040 and compatible FBE fulfills all coating standards.

## Product Properties:

Property	Test Method	Value	Unit
Melt flow index(190°C/2.16kg)	ISO 1133	1.0-2.5	gr/10min.
Density(compound) at 23±2°C	ISO 1183	0.900 – 0.950	gr/cm <sup>3</sup>
Tensile Yield strength at 23±2°C(50mm/min.)	ISO 527	≥8	MPa
Elongation at break at 23±2°C(50mm/min.)	ISO 527	≥600	%
O.I.T at 210° C	ISO 11357	≥20	Minutes
Melting point (DSC Method)	ISO 11357	≥120	°C
Hardness	ISO 868	≥47	Shore D
VICAT Softening point (A/50,9.8 N)	ISO 306	≥95	°C
Water content	ISO 15512	≤0.1	Weight%
Brittleness Temperature	ASTM D 746	≤ -50	°C (No Fracture)
Peel Strength(3-layer) at 23±2°C	ISO 21809-1,Ann. C	≥20	Kg/cm
Peel Strength(3-layer) at 80±2°C	ISO 21809-1,Ann. C	≥3	Kg/cm

All mentioned information in this table are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any data given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

## Product Packaging & Storage:

750 kg(nominal) big bags