J1020XA20

LOW DENSITY POLYETHYLENE
GRADE FOR W&C INSULATION

J1020XA20 is a natural Low Density Polyethylene resin for Medium voltage cable insulation using direct peroxide addition. It is designed for easy processing on conventional cable extrusion lines. It does not contain any additive and is un-stabilized. Required amount of antioxidant must be added to achieve desired ageing performance.

TYPICAL CHARACTERISTICS*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE**
Density (23^0 C)	ASTM D 792	g/cc	0.918
Melt Flow Index (190^{O}C/2.16 Kg)	ASTM D 1238	g/10 min	2.0
Tensile Modulus	ASTM D 638	MPa	170
Tensile Yield Strength	ASTM D 638	MPa	8.5
Ultimate Tensile Strength	ASTM D 638	MPa	12
Elongation at Break	ASTM D 638	%	> 500
Hardness (Shore D)	ASTM D 2240	Shore D	45
Vicat Softening Point (10 N)	ASTM D 1525	˚C	89
DSC Melting Point	ASTM D 3418	˚C	108

* Typical characteristics and not to be taken as specifications.
** Typical values on compression moulded test specimens.

APPLICATIONS:

Medium Voltage cable insulation using direct peroxide addition

Typical Process Conditions:

- Melt Temperature (˚C) - 130 – 160

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Regulatory Information

- Meets the requirements stipulated in standard IS: I0146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to IS 16738:2018 “Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals”
- For various regulatory compliance please contact RIL representative
- J1020XA20 is not intended for use in medical and pharmaceutical applications.

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV / direct sunlight.