



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 ^o 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

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.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.