



Lucalen A3110M Q244

Compounded Polyolefin

Product Description

Lucalen A3110M Q244 is a natural adhesive medium/high density polyethylene copolymer powder with a high thermal stability. Due to the acrylic acid/acrylate copolymer (E/A) content this grade offers excellent adhesion to polar materials (i.e. epoxy resin, steel, aluminium, etc.). It is design to be used by our customers in 3-layer anti corrosion coating applications where sprayable powder is requested. The material is available in powder form. The particle size distribution is mainly in the 90 - 500 µm range.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Features	Copolymer, Good Heat Aging Resistance , High Heat Resistance , Good Processability, Good Thermal Aging Resistance, Good Thermal Stability

Typical Properties	Method	Value Unit
Physical		
Density	ISO 1183	0.928 g/cm³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	7 g/10 min
Bulk density (23°C)	ISO 60	>0,45 g/cm³
Note: ISO 60		
Mechanical		
Tensile Modulus (23 °C)	ISO 527-1, -2	74 MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	50 MPa
Hardness		
Shore hardness (Shore D)	ISO 868	38
Thermal		
Melting temperature		100 °C
Note: ISO 3146		
Vicat softening temperature A/50	ISO 306	65 °C
Film		
Comonomer BA		8 %
Note: DIN 51451		
Additional Information		
Comonomer AA		4 %
Note: DIN 51451		

Additional Properties

Processing:
Recommended melt temperatures: The powder should be applied when the pipe temperature is within the range recommended by the epoxy supplier.
Unless specifically indicated, the grade mentioned is not suitable for applications in the pharmaceutical/medical sector.

Notes

Typical properties; not to be construed as specifications.

Further Information

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Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that may be contained to a small extent in polymer materials. These particles can under certain conditions pose an explosion hazard. We recommend the conveying system used is equipped with adequate filters, is operated and maintained so that no leak develops and adequate electrical grounding exists at all times.

Health and Safety:

Special requirements apply to certain applications such as food contact end-use and direct medical use. For specific information on regulatory compliance contact your local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimum precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation have an unpleasant odour. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention must be observed. If the principles of sound manufacturing practice are

pollution prevention must be observed. If the principles of sound manufacturing practice are adhered to and the place of work is well ventilated, no health hazards in processing the material have been reported.

The material will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. In burning the material generates considerable heat and may generate dense black smoke. Minor fires can be extinguished by water, developed fires should be extinguished by heavy foams forming an aqueous or polymeric film. For further information about safety in handling and processing please refer to the Material Safety Data Sheet (MSDS).

Storage:

The material is packed in 25 kg bags or in bulk containers protecting it from contamination. Storage times of natural materials longer than 6 months may have a negative influence on the quality of the final product (for example the brightness). It is generally recommended to convert all materials latest within 6 months of production.

The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage.

Further unfavourable storage conditions are large fluctuations in ambient temperature and high atmospheric humidity. These conditions may lead to moisture condensing inside the packaging. Under these circumstances, it is recommended to dry the material before use. Unfavourable storage conditions may also intensify the material's slight characteristic odour.

Due the hygroscopic character of the carbon black pigments, black coloured materials may pick up moisture even under appropriate storage conditions. If this is the case it is recommended to dry the material before processing. After a storage period of more than 3 months drying of such material is recommended as standard practice.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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