

Product Data Sheet

Lucopren®1500 M

1. Product description

Lucopren®1500M is a novel, super-soft and highly elastic materials based on thermoplastic polyolefins. It is suitable for respective extrusion and injection molding applications as well as improving the mechanical properties of especially LLDPE and LDPE film applications and/or impact modifying PP. Standard grade can be supplied as non-colored granules. Customized colored versions are available upon request.

2. Product properties

Lucopren®1500M displays excellent flexibility and elasticity. Lucopren®1500M can be converted into products with an excellent touch and good rebound resilience. In multi-layer composites Lucopren®1500M demonstrates superior adhesion to polyolefins. Moreover, Lucopren®1500M can be easily colored by using standard color-masterbatches with a polyolefin carrier resin.

3. Product advantages

- Easy processing on standard processing equipment
- High stability, elasticity and flexibility
- Good mechanical properties
- High end use temperature
- High impact properties at low temperatures
- Good compatibility with polyolefins
- Good organoleptics
- Environmentally friendly

4. Applications

Lucopren®1500M is of molding grade easily to be converted into any kind of polymeric product where improved elasticity is required. Additionally, Lucofin® 1500M can be used to manufacture soft layers of rubbery surfaces and touch. Other fields of application are extrusion coatings and multi-layer constructions as well as calendared tarpaulins as an alternative to soft PVC. Furthermore, when crosslinking Lucopren®1500M by means of peroxide or radiation, stable, closed-cell foams can be produced.

5. Processing

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Lucopren®1500M is suited for conventional standard processing equipment. We recommend the following standard settings for extrusion.

Profiles & Hoses:	approx. 110° - 140°C
Blow molding:	approx. 130° - 200°C
Blown films	approx. 110° - 160°C
Flat sheet composites:	approx. 160° - 200°C
Coatings:	approx. 160° - 210°C

6. Chemical resistance

Lucopren®1500M is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to aliphatic, aromatic and halogen-substituted hydrocarbons Lucopren®1500M may swell or dissolve to a certain extent.

7. Storage and handling

Granules in 25 kg bags, pallet standard = 1.375 kg
Other Packaging upon request.

Lucopren®1500M should be stored under dry conditions at a temperature below 40 °C and protected from UV-light otherwise the packaging could be damaged. Storage time in excess of 6 months may have a negative impact on the processability of the product. We strongly recommend to use the material latest within 6 months after delivery. Use beyond the recommended shelf-life. The product should be inspected according to quality assurance measures to ensure product's performance. Otherwise degradation may occur resulting in odor generation and color changes.

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Typical Properties			
	Standard	Unit	1500M
Colour			natural
Density (23 °C)	ISO 1183	g/cm ³	0.89
Melt Temperature		°C	143
MFR (230°C/2.16 kg)	ISO 1183	g / 10 min	8
Vicat Softening Point	ISO 306	°C	55
Elongation at Break (23 °C)	ISO 527	%	> 850
Tensile Strength	ISO 527	MPa	> 10
Shore Hardness D	ISO 868	-	30
These standard values are typical values and should not be regarded as specifications.			

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