

Product Data Sheet

Lucopren® EP1505-55

1. Product description

Lucopren® EP1505-55 is a thermoplastic elastomer. Due to its chemical structure, Lucopren® EP1505-55 exhibits unique properties combining the performance of a conventional elastomer with the processability of a thermoplastic polymer.

2. Product advantages

- easy processing with standard processing equipment
- flexibility
- good mechanical properties: high temperature resistant
- suitable for food contact applications
- environmentally friendly

3. Applications

Lucopren® EP1505-55 is used primarily for injection moulding applications.

4. Processing

Lucopren® EP1505-55 is suited for conventional standard processing equipment. We recommend the following standard values for extrusion:

For injection moulding Lucopren® EP1505-55 is processed at melt temperatures ranging from 180 - 230°C and mould temperatures from 30 - 60°C.

5. Chemical resistance

Lucopren® EP1505-55 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® EP1505-55 may swell or dissolve to some degree.

6. Packaging

Granules in 20 kg aluminium-bags, standard pallet 1.000 kg.

7. Storage

Lucopren® EP1505-55 should be stored in dry conditions at a temperature below 40°C. In order to protect packaging, exposure to (UV-)light should be avoided.

Storage time over 6 months may have negative effects on product processability. We strongly recommend to convert the material latest within 6 months after delivery.

Used after the recommended shelf-life, the product should be inspected according to quality assurance measures to ensure product performance.

Otherwise, product degradation may occur resulting in odour generation and colour changes.

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Technical data			
	Standard	Unit	Standard value*
Density (23 °C)	ISO 1183	g/cm ³	0,93
Shore hardness A	DIN EN ISO 868	-	60
Tensile stress**: 23°C, 2,00mm	DIN 53504	MPa	5,10
Tensile elongation**: 23°C, 2,00mm	DIN 53504	%	730
Compression set: 70°C, 22h)	DIN 815	%	42
* These standard values are typical values and should not be regarded as specification			
** Typ 2, 200mm/min			

Processing information		
Injection moulding	Standard value*	Unit
Drying temperature	80	°C
Drying time	3	h
Process temperature	180-230	°C
Mould temperature	30-60	°C

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