

LOTADER[®] 4503

LOTADER[®] 4503 is a random ethylene – methyl acrylate - maleic anhydride terpolymer.

LOTADER[®] 4503 is a versatile ready-to-use tie layer resin for extrusion lamination/coating, not intended to be diluted.

LOTADER[®] 4503 provides excellent adhesion in direct bonding onto printed, reverse-printed and plain films (OPET, OPP, CPP, OPA), while having a good processability in extrusion coating and lamination onto foil, metallized films, paper and board.

Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	8
Methyl Acrylate Content	FTIR (internal method)	%wt.	30
Maleic Anhydride Content	FTIR (internal method)	%wt.	0.3
Melting Point	ISO 11357 /ASTM D3418	°C	80
Density	ISO 1183	-	0.94
Vicat Softening Temperature (10N) ¹	ISO 306	°C	45
Tensile strength at break ¹	ISO 527 / ASTM D638	MPa	9
Elongation at break ¹	ISO 527 / ASTM D638	%	750
Flexural Modulus ¹	ISO 178	MPa	20
Hardness Shore D ¹	ISO 868 / ASTM D2240	-	25

¹: On compression molded samples.

Processing

LOTADER® 4503 could be extruded with standard polyolefin equipment with typical melt temperature of 290°C and up to 320°C.

LDPE purge is recommended before extruder shutdown.

Storage, Handling & Safety

LOTADER® 4503 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in a ventilated area, away from heat, humidity and direct sunlight. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

It is recommended to reseal the bag or the liner after use to protect LOTADER® 4503 against moisture.

Safety data sheet as well as information on handling and storage of the LOTADER® 4503 are available upon request to your SK Functional Polymer representative or at www.sk-fp.com.

Shelf Life

Three years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.