

LOTADER[®] 5500

LOTADER[®] 5500 is a random ethylene – ethyl acrylate - maleic anhydride terpolymer.

Due to its properties, reactivity, fluidity and compatibility with tackifying resins and waxes, LOTADER[®] 5500 is suitable as additive for hot melt adhesive formulations and as coupling agent in mineral filled compounds.

Typical Properties

	Test Method	Unit	Typical Value
Ethyl Acrylate Content	FTIR (internal method)	%.-wt.	20
Maleic Anhydride Content	FTIR (internal method)	%.-wt.	2.8
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	20
Melting Point	ISO 11357 / ASTM 3418	°C	80
Vicat Softening Temperature (1)	ISO 306 / ASTM D1525	°C	45
Density	ISO 1183	g/cm ³	0.94
Flexural Modulus (1)	ISO 178	MPa	< 30
Elongation at break (1)	ISO 527-2 / ASTM D638	%	700
Tensile strength at break (1)	ISO 527-2 / ASTM D638	MPa	10
Hardness Shore A (1)	ISO 868 / ASTM D2240	-	93

(1) On compression molded samples.



Processing

Heat stability of acrylate comonomers allows processing temperatures as high as for polyamides, which is the main material using LOTADER® 5500 as impact modifier. However, to minimize the generation of gels, it is recommended to purge the equipment with LDPE after a run is completed.

LOTADER® 5500 is not corrosive.

Storage, Handling & Safety

LOTADER® 5500 is usually packed in waterproof bags or rigid containers with waterproof liner. It should be stored in dry conditions and be kept out of moisture in an aerated building. 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® 5500 against moisture.

