

Liner® Thermoplastic Road Marking Material

GENERAL INFORMATION

Product Name	Liner® Thermoplastic Road Marking Material
Product Definition	Durable road marking containing hydrocarbon or rosin ester thermoplastic resin
Application Type	Extrusion, Screed or Spray
Application Areas	Highways, State roads, Junction crossings, Stop lines, Direction arrows

PROPERTIES

1 Solvent-free.	2 Rosin ester or hydrocarbon resin can be used according to customer's demand.	3 Shows high resistance to external forces including harsh weather, tire friction and waterjet.	4 Is sprayable by high-capacity thermoplastic machines.
5 Can be cleaned with low-pressure water. Automatically cleans itself with rain.	6 Requires heating for application.	7 Easily transported due to its high flash point ($\geq 240^{\circ}\text{C}$).	

TECHNICAL SPECIFICATIONS

Thickness (mm)	0.8 – 5.0
Colors	White and yellow. Red and other colors are available upon special request
Maximum Density (g/cm^3)	2.15
Minimum Binder Content	18%
Application Temperature ($^{\circ}\text{C}$)	180 – 200
Maximum Application Temperature ($^{\circ}\text{C}$)	210
Drying Time Under 25°C (minutes)	2 max
Storage Conditions	Away from direct sunlight, in powder or in block form
Storage Stability	2 Years
Consumption for 2 mm Thickness	4.0 kg/m^2
Reflectivity	Liner Thermoplastic contains inmix glass beads. It is recommended that $450 \pm 50 \text{ g}/\text{m}^2$ drop-on glass beads be added for amplified retroreflectivity

EQUIPMENT

<ul style="list-style-type: none"> A thermoplastic extrusion, screed or spray machine should be used for application 	<ul style="list-style-type: none"> Low-capacity hand-held machines or high capacity truck-mounted machines can be used 	<ul style="list-style-type: none"> Contact us for recommended application machines
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TEST RESULTS: onroughness(inaccordancewithEN13197:2011+A1:2014)

REQUIREMENTS OF THE ROAD MARKING SYSTEM inaccordancewithEN 1436:2018			DURABILITY expressedintraffic classes, in accordance with EN 13197:2011+A1:2014					
According to intended use of the road marking system, not all requirements are necessary			Expressed in	P0	P4	P5	P6	P7
Night-time visibility	Coefficient of retroreflected luminance R_L	Dry	Class (R)	R5	R4	R4	R4	R4
		Wet	Class (RW)	RW2	RW1	RW1	RW1	RW2
Day-time visibility	Luminance coefficient under diffuse illumination Q_d		Class (Q)	Q5	Q5	Q5	Q5	Q5
	or Luminance factor B		Class (B)	B5	B5	B5	B5	B5
	Chromaticity coordinates (x-y)		Pass/Not Pass	pass	pass	pass	pass	pass
Skid resistance	SRT units		Class (S)	S1	S1	S1	S1	S1
Wear	Wear percentage (Remaining road marking)		%	100	99	99	99	99
Type	Type road marking system		Type I / II	II				
NO PICKUP-TIME In accordance with EN 13197:2011+A1:2014			Class (T)	N/A				

TRANSPORTATION AND APPLICATION

- Liner Thermoplastic is transported in 25 kg PP/PE bags

- To prevent rain, the pallets are covered with nylon

- Heat the paint up to 180 - 200°C with a preheater before application

- Clean and dry the road surface before application. Use a waterjet to scrap off old paint

- Do not apply if the surface is wet or the paint will not stick

- You may clean off the soil and dust on the paint with clean water

