



ODE carries the modern bitumen modifying technologies to production line with the 12.000.000 m²/year production capacity factory in Çorlu/Turkey.

OPAL, GRANAT AND RUBIN product range offers solutions for all climates and all waterproofing applications both for roofing and foundations.

Polymer Modified Waterproofing Membranes



ODE increases quality in production, sales, service and logistics by taking Total Quality Management ISO 9001: 2000 strictly in consideration.



Bitumen's known waterproofing property is improved with **APP** (Atactic Polypropylene), **SBS** (Styrene Butadiene Styrene) polymers with the up-to date technology to give the best service under different climate conditions. Reinforced with glass fiber or non woven polyester reinforcements to give the perfect mechanical strength for a large range of waterproofing applications.



ODE MEMBRAN OPAL

Opal product range carries the basic properties of APP modified bitumen for a wide range of applications. Easy and economic application for flat roofs and foundations in soft climates.



TECHNICAL DETAILS	STANDARD	UNIT	OC 200	OC 300	OP 300	OP 400	OC 400 M	OP 400 M
Reinforcement	-	-	glassfiber	glassfiber	non woven polyester	non woven polyester	glassfiber	non woven polyester
Thickness	TS-EN 1849-1	mm	2	3	3	4	3,5	3,5
Softening Point	TS-11758-1	°C	≥ 110	≥ 110	≥ 110	≥ 110	≥ 110	≥ 110
Cold Flexibility	TS-EN 1109	°C	≤ -5	≤ -5	≤ -5	≤ -5	≤ -5	≤ -5
Impermeability	TS prEN 1928	-	OK	OK	OK	OK	OK	OK
Tensile Strength (Length/Width)	TS 1908	N/5cm	≥ 300/200	≥ 400/300	≥ 600/400	≥ 600/400	≥ 400/300	≥ 600/400
Elongation (Length/Width)	TS 1908	%	2/2	2/2	30/30	30/30	2/2	30/30
Finishing (Surface/under surface)	-	-	PE/PE	PE/PE	PE/PE	PE/PE	MİN/PE	MİN/PE
Roll Size (Length/Width)	TS-11758-1	m	15/1	10/1	10/1	10/1	10/1	10/1

ODE MEMBRAN GRANAT

Granat product range carries the high performance characteristics of **APP** modified bitumen for a wide range of applications. Perfect waterproofing is guaranteed with **APP** bitumen, which provides flexibility in low temperature and high softening point for flame bonding applications.



TS 11758-1



EN ISO 9001:2000



TECHNICAL DETAILS	STANDARD	UNIT	GC 200	GC 300	GP 300	GP 400	GC 400 M	GP 400 M	GC 300 AL	GP 300 AL
Reinforcement	-	-	glassfiber	glassfiber	non woven polyester	non woven polyester	glassfiber	non woven polyester	glassfiber	non woven polyester
Thickness	TS-EN 1849-1	mm	2	3	3	4	3,5	3,5	3	3
Softening Point	TS-11758-1	°C	≥ 120	≥ 120	≥ 120	≥ 120	≥ 120	≥ 120	≥ 120	≥ 110
Cold Flexibility	TS-EN 1109	°C	≤ -10	≤ -10	≤ -10	≤ -10	≤ -10	≤ -10	≤ -10	≤ -10
Impermeability	TS prEN 1928	-	OK	OK	OK	OK	OK	OK	OK	OK
Tensile Strength (Length/Width)	TS 1908	N/5cm	≥ 300/200	≥ 400/300	≥ 800/600	≥ 800/600	≥ 400/300	≥ 800/600	≥ 400/300	≥ 800/600
Elongation (Length/Width)	TS 1908	%	2/2	2/2	35/35	35/35	2/2	35/35	2/2	35/35
Finishing (Surface/under surface)	-	-	PE/PE	PE/PE	PE/PE	PE/PE	MIN/PE	MIN/PE	AL/PE	AL/PE
Roll Size (Length/Width)	TS-11758-1	m	15/1	10/1	10/1	10/1	10/1	10/1	10/1	10/1

ODE MEMBRAN RUBIN

Rubin product range carries the high performance characteristics of **SBS** modified bitumen for a wide range of applications. Perfect waterproofing is guaranteed with **SBS** bitumen, which provides flexibility in low temperatures. Ideal for applications in cold climates in high deflection steel structures.



TS 11758-1



EN ISO 9001:2000



TECHNICAL DETAILS	STANDARD	UNIT	RC 200	RC 300	RP 300	RP 400	RC 400 M	RP 400 M
Reinforcement	-	-	glassfiber	glassfiber	non woven polyester	non woven polyester	glassfiber	non woven polyester
Thickness	TS-EN 1849-1	mm	2	3	3	4	3,5	3,5
Softening Point	TS-11758-1	°C	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
Cold Flexibility	TS-EN 1109	°C	≤ -20	≤ -20	≤ -20	≤ -20	≤ -20	≤ -20
Impermeability	TS prEN 1928	-	OK	OK	OK	OK	OK	OK
Tensile Strength (Length/Width)	TS 1908	N/5cm	≥ 400/300	≥ 400/300	≥ 800/600	≥ 800/600	≥ 400/300	≥ 800/600
Elongation (Length/Width)	TS 1908	%	2/2	2/2	35/35	35/35	2/2	35/35
Finishing (Surface/under surface)	-	-	PE/PE	PE/PE	PE/PE	PE/PE	MIN/PE	MIN/PE
Roll Size (Length/Width)	TS-11758-1	m	15/1	10/1	10/1	10/1	10/1	10/1



Future of Insulation

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