

ORIPLAST REFLEX: THERMAL INSULATION TEST WITH ARTIFICIAL HEAT

Report Nr. 007/2007

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| Tested product: | Oriplast Reflex |
| Manufacturer: | Diasen srl |
| Test samples (type and dimentions): | 32x23x20 box cm (h·l·p) with a hole on its side ø=1,5cm, covered by Oriplast Reflex |
| Surface conditions: | A bit rough |
| Starting test time: | 14:25 |
| Fiinshing test time | 18:25 |
| Products thickness: | 0,25 mm |
| Tester machine: | -Thermometer TQC DEW check for external temperature -Thermometer HI 8314, for internal temperature -Lamp IR 75W |
| Temperature during test : | 25°C±2°C in freezer |
| Relative humidity during test: | 50%±2% |

Results

| RADIATION STAYING TIME (minutes) | T_{ext} (°C) | T_{int} (°C) | Δ (°C) |
|-------------------------------------|----------------|----------------|---------------|
| 20 | 27,3 | 22,9 | 4,4 |
| 42 | 28,4 | 23,9 | 4,5 |
| 65 | 29,0 | 23,8 | 5,2 |
| 90 | 29,2 | 23,5 | 5,7 |
| 120 | 28,8 | 22,8 | 6,0 |
| 150 | 28,8 | 22,0 | 6,8 |
| 180 | 29,2 | 21,2 | 8,0 |
| 220 | 28,8 | 20,3 | 8,5 |
| 240 | 28,8 | 18,6 | 10,2 |

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| Δ MEDIUM (°C) | 6,6 |
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Remarks

Test results show that Oriplast Reflex ensures a temperature reduction on internal environment of, on average, about 6.6°C, if compared to outside temperature