

檢測報告



REPORT

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TEST RESULTS

Compound density

Density measured on a mass melt-flow rate extrudate	Measured value	Requirement
OD 90 mm	955 kg/m ³	≥ 930 kg/m ³

Test method: ISO 1183:1987, method D
 Test temperature: 23 ± 0.1 °C
 Date of test: June 10, 2010

Pigment dispersion

OD 90 mm

Test No	Agglomerate grading	Requirement
1	0	
2	0	
3	0.5	
4	0	
5	0	
6	0	
Average	0.1	≤ 3

Test method: ISO 18553:2002
 Film preparation method: Microtome
 Date of test: June 16, 2010

Oxidation induction time

Pipe designation	Weight test piece, mg	Measured value	Requirement
OD 90 mm			≥ 20 minutes
Sample 1	17	> 60 minutes	
Sample 2	17	> 60 minutes	
Sample 3	17	> 60 minutes	

Test method: EN 728:1997
 Test temperature: 200 ± 0.2 °C
 The uncertainty is < 10 % of the measured value.
 Date of test: June 10, 2010

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Melt mass-flow rate

OD 90 mm

Sample no	Measured melt mass-flow rate g/10 minutes	Requirements
1	0.25	
2	0.24	
3	0.24	
4	0.23	
5	0.23	
6	0.23	
Mean value	0.24	0.2 to 1.4 g/10 minutes

Test method: ISO 1133:1999
 Test temperature: 190 ± 0.5 °C
 Test load: 5000 g ± 0.1 %
 Cut-off time interval: 80 seconds
 The calculated uncertainty is < 5 % of measured value.
 Date of test: June 08, 2010

Resistance to slow crack growth

Four longitudinal notches were milled on one pipes. The notches were equally spaced around the pipe periphery according to EN ISO 13479:1997. The notches were placed in the middle of the pipes.

OD 90 mm

Pressure test results

Sample no	Test temperature °C	Test pressure MPa	Time to rupture h	Failure in notch no	Time to rupture requirement h
1	80	0.920	> 1100	Interrupted	≥ 1000

Test method: EN 921:1994 with end caps type a
 The test condition tolerances were:
 Test temperature: ± 0.3 °C
 Test pressure: ± 0.7 %
 Time to achieve the test pressure: < 5 minutes
 Free length between end caps: 450 mm
 Date of test: June. 18, 2010 – Aug. 03, 2010