

1.) Sample information

Material Identification: Makrolon 2805 natur/PC

Testing Period: 27/SEP/2007 – 22/OCT/2007

2.) Applied analytical techniques

Sample preparation:	Pulverization/Homogenization of the sample material
Chromium, Lead, Cadmium:	Inductively coupled plasma atomic emission spectrometry acc. EN ISO 11885 after microwave digestion with nitric acid/hydrogen peroxide based on EPA 3051 A
Mercury:	Cold vapor atomic absorption spectrometry acc. DIN EN 1483 after microwave digestion with nitric acid/hydrogen peroxide based on EPA 3051 A
Bromine:	X-ray fluorescence analysis (Screening analysis) with NITON Model XLt-797WZ portable X-ray fluorescence analyser acc. IEC 62321 CDV Ed. 2
PBDE/PBB:	High resolution gas chromatography with mass-selective detector after soxhlet extraction with toluene based EPA 3540C

3.) Analytical results

Parameter		Value	Limit according Directive 2005/618/EC	Comment	
Cadmium (Cd)		mg/kg	< 1	100	
Lead (Pb)		mg/kg	< 10	1000	
Mercury (Hg)		mg/kg	2.6	1000	
Chromium, total (Cr)		mg/kg	17	1000	Hexavalent chromium, Cr (VI)
Bromine (Br)		mg/kg	< 200	-	
PBDEs	Monobromo diphenyl ether	mg/kg	< 5	1000	Sum of polybrominated diphenyl ethers
	Dibromo diphenyl ether	mg/kg	< 5		
	Tribromo diphenyl ether	mg/kg	< 5		
	Tetrabromo diphenyl ether	mg/kg	< 5		
	Pentabromo diphenyl ether	mg/kg	< 10		
	Hexabromo diphenyl ether	mg/kg	< 10		
	Heptabromo diphenyl ether	mg/kg	< 10		
	Octabromo diphenyl ether	mg/kg	< 20		
	Nonabromo diphenyl ether	mg/kg	< 30		
	Decabromo diphenyl ether	mg/kg	< 50		
PBBs	Monobromo biphenyl	mg/kg	< 5	1000	Sum of polybrominated biphenyls
	Dibromo biphenyl	mg/kg	< 5		
	Tribromo biphenyl	mg/kg	< 5		
	Tetrabromo biphenyl	mg/kg	< 5		
	Pentabromo biphenyl	mg/kg	< 10		
	Hexabromo biphenyl	mg/kg	< 10		
	Heptabromo biphenyl	mg/kg	< 10		
	Octabromo biphenyl	mg/kg	< 20		
	Nonabromo biphenyl	mg/kg	< 30		
	Decabromo biphenyl	mg/kg	< 50		

Revision: A

Compliance List:

RoHS Directive 2002/95/EC
WEEE Directive 2002/96/EC
ELV Directive 2000/53/EC

Based on the performed tests on the submitted sample, the results **indicate no conflict** with the above directives and its subsequent amendments.



Günter Popp
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