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TEST REPORT

Determination of Heavy Metals Cr, Cd, Hg and Pb in various Nylon 6 Drum Clip Samples (PPWR Testing)

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REPORT NO.
IWTN/W000020385RLM001

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List of Revisions

Rev.	Date	Revision details	Author	Issue
IWTN/W000020385RL001	15/10/2026	First Report	Sean Fox	
IWTN/W000020385RLM001	29/10/2026	Client requested name updates on report	Sean Fox	

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Test Report

Report Number:	IWTN/W000020385RLM001
Chit Number:	ITWI-00000027934
Receipt Date:	29/09/2026
Testing Start Date(s):	13/10/2026
Lab Book Reference:	INT0298 page 98
File Reference Location(s):	E224, S:/LABDAT REPORTS and LIMS:/INORGANIC/SMF-FILES/LABDATWORK/2026/OCT
Number of Samples:	6
Method Reference(s):	MSG/LAB/SOP/IA/2 version 8, MSG/LAB/SOP/ICP/51 version 5 and MSG/LAB/SOP/ICP/54 version 2

Samples submitted

Intertek Sample Reference	Sample Description	Customer Identifier
IWTN/W000020385-1	Polymer (Nylon 6)	Black Bag (Red sample) Domo TECHNYL-4EARTH-C1E-316-V30-NC + LC 3005278F PA
IWTN/W000020385-2	Polymer (Nylon 6)	Black Bag (Orange sample) Domo TECHNYL-4EARTH-C1E-316-V30-NC + LC 2001315F PA
IWTN/W000020385-3	Polymer (Nylon 6)	Black Bag (Green sample) Domo TECHNYL-4EARTH-C1E-316-V30-NC + LC 4002151F PA
IWTN/W000020385-4	Polymer (Nylon 6)	White Bag (Red sample) Ravamid B GF 30 NC + LC 3005278F PA
IWTN/W000020385-5	Polymer (Nylon 6)	White Bag (Orange sample) Ravamid B GF 30 NC + LC 2001315F PA
IWTN/W000020385-6	Polymer (Nylon 6)	White Bag (Green sample) Ravamid B GF 30 NC + LC 4002151F PA

Description of work required

Pb, Cd, Hg and Cr (PPWR testing metals)

Experimental

Heavy Metals (Cr, Cd, Hg and Pb) Analysis

Samples have been digested using a combination of HNO_3 and high-pressure microwave. Solutions were diluted accordingly, spiked with indium as internal standard and analysed on a Perkin Elmer NexION 350D ICP-MS system against matrix matched standards.

Results

Heavy Metals Results

Sample	Cr	Cd	Hg	Pb
	ppm w/w	ppm w/w	ppm w/w	ppm w/w
Black Bag (RED)	4.66	<0.1	<0.5	0.73
Black Bag (ORANGE)	4.47	<0.1	<0.5	0.69
Black Bag (GREEN)	8.48	<0.1	<0.5	0.78
White Bag (RED)	3.56	<0.1	<0.5	0.36
White Bag (ORANGE)	2.97	<0.1	<0.5	0.34
White Bag (GREEN)	6.36	<0.1	<0.5	0.73

Table 1 showing heavy metals results.

Instrumental uncertainty is better than 10% relative.

Regulatory Conclusion

Metals for PPWR

Disclaimer

The heavy metal testing results provided in this report demonstrate compliance only with the cumulative concentration limit (100 mg/kg) of mercury, lead, chromium and cadmium outlined in Article 5 of Regulation (EU) 2025/40 (PPWR).

The limits outlined within EU2025/40 are without prejudice to any restrictions on chemicals set out in Annex XVII to Regulation (EC) No 1907/2006 or, where applicable, to the restrictions and specific measures on food-contact materials and articles in Regulation (EC) No 1935/2004. Therefore, care should be taken when using these results to demonstrate compliance with other horizontal legislation.

Conclusion

Pass:

All samples were found to be compliant with the cumulative concentration limit (100 mg/kg) of mercury, lead, chromium and cadmium outlined in Article 5 of Regulation (EU) 2025/40 (PPWR).

Reference

European Commission (2026) *Commission Notice: Guidance document for Regulation (EU) 2025/40 on packaging and packaging waste*. Official Journal of the European Union, C/2026/3702, 5th June 2026. Available at: https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=PI_COM:C(2026)3702 Accessed: 7 August 2026).

Report authorisation

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(A) Date: 29/10/2026

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