



Pacific Rim PET

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Food Contact: Dragon Special Resin “PET”

U.S. FDA Compliance “CERTIFICATION LETTER”

Food Contact Notification (FCN)

This product complies with the compositional requirements and specifications of the U.S. Food and Drug Administration Food Contact Notification (FCN) 000635 of the food additive regulations.

PET Resin is short for *polyethylene terephthalate* - the chemical name for polyester. PET is made by combining ethylene glycol and terephthalic acid under high temperature and low vacuum pressure to form a polymer chain. The resulting polyester polymer is extremely stable, tough and essentially inert. PET is highly resistant to chemical or biological reaction with other substances. This non-reactive quality is at the heart of PET's safety.

Dragon PET Resin does not contain BPA, phthalates, dioxins, lead, cadmium or endocrine disruptors.

, California Proposition 65

This product does not contain any substance listed by the “California Safe Water and Toxic Enforcement Act of 1986” (California Proposition 65) effective 20 July 2012 as being a carcinogen or reproductive toxicant in an amount that would require a warning statement under the provisions of the Act.



Test Report

No.: XMML111004523

Date: Nov 09, 2011

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DRAGON SPECIAL RESIN (XIAMEN) CO., LTD.
NO.1189, NANHAI ROAD, HAICANG INVESTMENT ZONE, XIAMEN, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : PET RESIN FOR BOTTLES TLE-103
SGS Ref No. : HKG11-009890-3/EC
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Oct 25, 2011
Test Period : Oct 25, 2011 to Nov 08, 2011

Test result(s) : Please refer to the following page(s)

Test Requested

US FDA 21 CFR 177.1630 (Polyethylene phthalate polymers) – Determination

Conclusion

PASS



Test Report

No.: XMML111004522

Date: Nov 09, 2011

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DRAGON SPECIAL RESIN (XIAMEN) CO., LTD.
NO.1189, NANHAI ROAD, HAICANG INVESTMENT ZONE, XIAMEN, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : PET RESIN FOR BOTTLES TLE-102
SGS Ref No. : HKG11-009890-2/EC
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Oct 25, 2011
Test Period : Oct 25, 2011 to Nov 08, 2011

Test result(s) : Please refer to the following page(s)

Test Requested

US FDA 21 CFR 177.1630 (Polyethylene phthalate polymers) – Determination

Conclusion

PASS



Test Report

No.: XMML111004521

Date: Nov 09, 2011

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DRAGON SPECIAL RESIN (XIAMEN) CO., LTD.
NO.1189, NANHAI ROAD, HAICANG INVESTMENT ZONE, XIAMEN, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : PET RESIN FOR BOTTLES TLE-101
SGS Ref No. : HKG11-009890-1/EC
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Oct 25, 2011
Test Period : Oct 25, 2011 to Nov 08, 2011

Test result(s) : Please refer to the following page(s)

Test Requested

US FDA 21 CFR 177.1630 (Polyethylene phthalate polymers) – Determination

Conclusion

PASS

Test- Analysis-Conclusion: Requirements of USA-FDA document 21 CFR 177.1630 covering food contact plastics. DSR Resin meets FDA specifications for food contact surfaces at exposure temperature below 250 degree “Fahrenheit”.



Characters: odor-free, non-toxic, high transparency, high strength and air-tightness, light weight and easy transportability, uniform size, stable viscosity, excellent processing ability and high product yield. In particular, the products fully conform to international standards for food-grade usages due to their low heavy metal, acetaldehyde and ash contents. These products are ideal 'green' materials for beverage bottle and food packaging.

The quality indices are listed below:

| Items | Unit | Water Grade (TLE-101) | CSD Grade (TLE-102) | Hotfilling (TL-103) | Oil Grade (TL-104) |
|----------------------------|-------------|-------------------------------|------------------------------|------------------------------------|------------------------------------|
| Intrinsic Viscosity | dl/g | 0.800±0.02 (ASTM D4603-03) | 0.850±0.02 (ASTMD4603-03) | 0.780±0.015 (GB17931-2003 25°C) | 0.830±0.015 (GB17931-2003 25°C) |
| Acetaldehyde content | ppm | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| Color | b value | ≤0 | ≤0 | ≤0 | ≤0 |
| | L value | ≥80 | ≥80 | ≥80 | ≥80 |
| DEG Content | % | 1.25±0.2 | 1.25±0.2 | 1.1±0.2 | 1.5±0.2 |
| Carboxyl End Group content | mol/t | ≤35 | ≤35 | ≤35 | ≤35 |
| Melting Point | °C | ≥245 | ≥245 | ≥250 | ≥245 |
| Crystallinity | % | ≥45 | ≥45 | ≥45 | ≥45 |
| Water Content | % | ≤0.4 | ≤0.4 | ≤0.4 | ≤0.4 |
| Ash Content | % | ≤0.08 | ≤0.08 | ≤0.08 | ≤0.08 |
| Dust | mg/kg | ≤100 | ≤100 | ≤100 | ≤100 |
| Impurities | pellet/500g | NIL | NIL | NIL | NIL |

Reported by:

Pacific Rim Traders - Dragon Group

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