DIC Adds Food Contact Grade to its Broad PPS Portfolio

Tokyo, Japan – DIC Corporation has recently added DIC.PPS FZ-2140-F3 BLACK, a glass-reinforced Polyphenylene Sulfide (PPS) compound, to its portfolio of more than 250 commercially-available PPS grades. The new product is designed to meet the requirements of materials and articles intended to come into food contact as described in the European legislation EU 10/2011 and by the U.S. Food & Drug Administration (FDA).

Compliance with Food Contact Regulations

All constituents of DIC.PPS FZ-2140-F3 BLACK are listed in EU 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

The PPS polymer (CAS No 25212-74-2) used in the formulation of the new grade is listed under the Food Contact Notification (FCN) 1731. Based upon formulation details provided by raw material suppliers of the other ingredients, DIC.PPS FZ-2140-F3 complies with applicable FDA regulations and can be used for components intended for repeat use applications in contact with all types of food under the conditions of use A through H as listed in the table 2 of 21 CFR 173.300(d).

The new product is also listed under NSF/ANSI 51 as food equipment material.

DIC.PPS FZ-2140-F3 BLACK: designed for a variety of food contact and food processing applications

Compliance with Drinking Water Regulations

Outstandingly, DIC.PPS FZ-2140-F3 BLACK also meets all relevant regulations for drinking water. The product has been certified for potable water contact according to the European standards ACS, WRAS, W270 DVGW and KTW as well as to the U.S. NSF/ANSI 61. Therefore, DIC.PPS FZ-2140-F3 BLACK is the latest addition to the existing DIC.PPS portfolio dedicated to tap water applications.

Nevertheless, existing food and potable water legislation still require proof of the suitability of the finished food articles in respect to the defined migration limits from converters.

Attaining regulatory food contact and drinking water approvals, the new compound offers typical PPS properties like excellent resistance to heat, chemicals and hot water as well as outstanding low creep behaviour and inherent non-flammability (UL94 V-0) which eliminates the need for flame retardants. This unique combination of properties enables food industry OEM engineers to gain design freedom and realize significant cost savings in a market with continuously increasing legislative restrictions.

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