Technical Information

Semi-Crystalline Products



Case Study

VDE-certified Durethan[®] DP A 30 S FN30 for rotary and flip switches



Material:	Durethan [®] DP A 30 S FN30
Manufacturer:	Comelux S.r.I., Italy
Industry:	Electrical/Electronics

Figure 1 Rotary and flip switches

The Comelux S.r.l. company with its head office in Milan produces electrical components, such as switches, control lamps, sockets and plugs. Examples of key markets for the Italian company are the household appliance industry and industrial electronics. As Comelux components are marketed globally, only materials complying with all international standards and regulations are used.

In response to the new household appliances standard IEC/EN 60335-1, LANXESS polyamides are now used which withstand the required high glow wire ignition temperatures of 775 °C.

Within its Durethan[®] product range, LANXESS offers a wide selection of flame-retardant polyamides which comply with the household appliances standard and are registered with UL and VDE. Durethan[®] DP A 30 S FN30 is an easy-flowing, nonreinforced PA 66 which, with its halogen-free, flameretardant system, achieves a UL 94 V-0 flammability classification in all colors. The high glow wire resistance with a GWIT value of 775 °C and a GWFI value of 960 °C are essential for use in unattended household appliances. In addition to the Yellow Card, Durethan[®] DP A 30 S FN30 has also attained VDE certification. This certificate allows the product to be used globally. The use of this polyamide therefore complies with IEC/EN 60335 without there being any need for an additional test on the finished part, as was previously the case. For the manufacturer, this means the highest possible degree of planning certainty right from the design phase.

Durethan[®] DP A 30 S FN30 also has outstanding electrical properties. Its creep resistance (CTI) achieves the highest possible value with a PLC of 0. The same holds true for the High Amp Arc Ignition Test (HAI) which also achieves the highest classification.

Durethan[®] DP A 30 S FN30, with its impressive list of properties, is the first choice for plastics processors manufacturing electronic components, particularly in the household appliances sector.

Disclaimer for sales products

Disclaimer for developmental products

This is a trial product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser / user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damage, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time.

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