

Case Study

Electrical appliance motor housings made from Pocan® T 7391



Figure 1 Electric motor housing made of Pocan® T 7391

Rotafil sells motors for domestic and industrial application all over the world. They are used in power tools, domestic appliances and in industry. All the company's motors are manufactured to universally accepted safety standards and comply with the requirements of TÜV, GS, UL, etc. Figure 1 shows the components of one such electric motor.

The design of the housing and the properties of the material used are crucial to the safe and reliable operation of the motor and hence the functional reliability of the complete assembly. In addition to high stiffness and strength, good dynamic properties are also essential for damping vibrations caused when the motor is in operation. When it came to selecting

Material: Pocan® T 7391

Manufacturer: Rotafil S.R.L., Italy

Industry: Electrical/electronic

a material for the housing, Rotafil therefore opted for Pocan® T 7391 from LANXESS. Pocan® T 7391 is a (PBT+PET) blend which yields a very good surface finish despite its high glass fiber content of 45 %. The product also satisfies all the other requirements of this application:

- high dimensional stability and low distortion
- high heat resistance
- low coefficient of thermal expansion
- good chemical resistance
- little tendency to creep

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