

Water absorption

ARPRO performance regarding water absorption has been evaluated according to the ISO 2896 test method.

Test method: ISO 2896

Three ARPRO samples with dimensions of 150 x 150 x 30mm are immersed in vessels full of distilled water for 4 days at ambient temperature of 23°C ($\pm 2^\circ\text{C}$). The two surfaces of 150 x 150mm of each sample are moulded surfaces, whereas other are cut surfaces. After 4 days of immersion, the samples are removed from the vessels and are left for 4 hours at ambient temperature. The weight difference before and after immersion is calculated in order to evaluate the water absorption in weight. This result is then expressed as the total volume of water absorbed by the ARPRO sample.

Tested densities: ARPRO from 20g/l to 200g/l

Test results: Typical ARPRO water absorption according to ISO 2896 is **below 2% in volume**.

Note: Water absorption can slightly vary depending on the quality of the surface and the internal fusion of the part. Therefore, the presence of cut surfaces as well as the moulding parameters can affect this property. Moreover, increasing the water temperature tends to accelerate the water absorption.

For more information about the data presented, or any aspect of ARPRO performance, [contact](#) your sales representative.