

APPROVAL OF SERVICE SUPPLIERS

This is to certify that

Evonik Technology & Infrastructure GmbH

Darmstadt, Germany

is granted acceptance for

**Mechanical and analytical testing , in accordance with Class Programme
DNVGL-CP-0484.**

This service supplier certificate will be accepted for use with all rule sets published by DNV GL.
See the following page(s) for details regarding application.

This Certificate is valid until **2021-08-21**.

Issued at **Hamburg Materials & Welding** on **2018-08-22**



for **DNV GL**

This document has been digitally signed and
will therefore not have handwritten signatures

Michalek, Guido

Insp. Eng. Materials Technology

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.



Certificate No: **AOSS0000EZB**

Application:

The certification covers the specific tests and types of tests as listed and described in the annex.

Remarks:

A laboratory inspection was carried out and all facilities and the qualification of the personnel in charge of the above mentioned company were found in good order.

Annex

DNV·GL

to the AOSS0000EZB

Scope of certified tests and types of tests

| Test | Test Method |
|---|------------------------|
| Mechanical and Technological | |
| Plastics - Determination of flexural properties | ISO 178 |
| Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST) | ISO 306 |
| Plastics - Determination of tensile properties Part 1: General principles | ISO 527-1 |
| Plastics - Determination of tensile properties Part 2: Test conditions for moulding and extrusion plastics | ISO 527-2 |
| Plastics - Determination of compressive properties | ISO 604 |
| Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics | ASTM D 256 |
| Standard Test Method for Index of Refraction of Transparent Organic Plastics | ASTM D542 |
| Standard Test Method for Water Absorption of Plastics | ASTM D 570 |
| Standard Test Method for Deformation of Plastics Under Load | ASTM D 621 (withdrawn) |
| Standard Test Method for Tensile Properties of Plastics | ASTM D 638 |
| Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position | ASTM D 648 |
| Standard Test Method for Compressive Properties of Rigid Plastics | ASTM D 695 |
| Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement | ASTM D 792 |
| Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics | ASTM D 1003 |
| Standard Practice for Computing the Colors of Objects by Using the CIE System ¹ | ASTM E 308 |



Annex

DNV·GL

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Scope of certified tests and types of tests

The following personnel are authorised to approve test reports

Kasim Altin

Dr. Thomas Arndt

Kemal Atsiz

Matthias Dilg

Max Jungnickel

Jürgen Moß

Dr. Daniel Ulbricht

Kerstin Mareike Tschepat

Max Jungnickel

Approved Testing Facility

Materialprüfung in der Product Line Analytik der Evonik Technology & Infrastructure GmbH

Kirschenallee

64293 Darmstadt

Germany

END OF ANNEX