

0. General Description

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1. General installation guidelines

Please install the program as follows (administrator rights are mandatory !):

- Uninstall a possible existing older version.
- If necessary reboot the operating system.
- Decompress the file „DPP.zip“ into any directory.
- Launch the „DPP-WebClient_setup.exe“.
The Microsoft® .NET Framework 2.0 is needed. If this is missing on your computer, the setup will navigate you by the additionally necessary installation. The setup must be restarted in this case.

2. Launching DPP WebClient from desktop without proxy setting

1



Double click to launch DPP

2

A "Login" dialog box with a title bar containing a close button (X). It has two input fields: "User Name" and "Password". The "Password" field contains a series of asterisks. At the bottom, there are three buttons: "OK" with a green checkmark, "Proxy Setup" with a proxy icon, and "Cancel" with a red X.

Enter DPP-Name + DPP-Password
(Registration data in the TechCenter of Bayer MaterialScience)

3

A "Disclaimer" dialog box with a title bar. The text inside reads: "The software 'Design and Processing Properties enables our customers to identify material properties through a specific mathematical process based on a set of variable parameters. Customers using the software do so on their own responsibility and at their own risk." Below this, it says: "Bayer accepts no liability or warranty for the quality of this process or for the correctness of the results achieved through its use. Neither is Bayer responsible for damage of any kind resulting from the use of this process or from the use of information, documents or presentations contained therein. Users bear the full responsibility for all risks that may result from the use of the software or the information contained therein." At the bottom center is an "OK" button.

Approve disclaimer

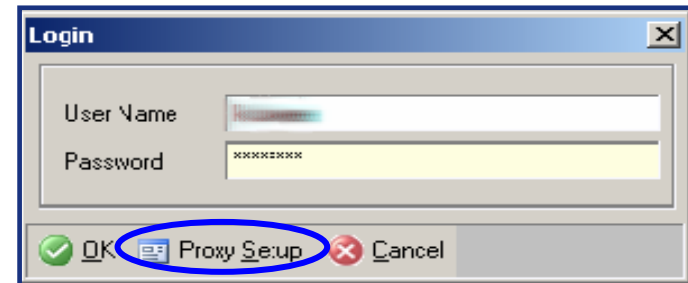
3.1 Launching DPP WebClient from desktop with proxy setting

1



Double click to launch DPP

2



Launch proxy setup

The setup of the internet options in the DPP login window must be made only with the first use or when changes at the internet access (e.g. password).

3.2 Launching DPP WebClient from desktop with proxy setting

3

The screenshot shows the 'Proxy Server Information Resolver' application window. It has a 'Test Results' section at the top with a 'Repeat Test' button. Below that are tabs for 'Direct Connection', 'Proxy Server Connection', 'Unsolved Script / Manual Test', and 'Current DPP Settings'. The main area contains a list of detected proxy servers, a 'Requires Authentication' checkbox, 'User Name' and 'Password' input fields, and 'Test Settings' and 'Save to DPP' buttons. A large empty list box is also present.

Indicate the proxy test results and, if necessary, repetition of the tests.

Search and selection of the firm-specific Internet connections

Test of the selected proxy server

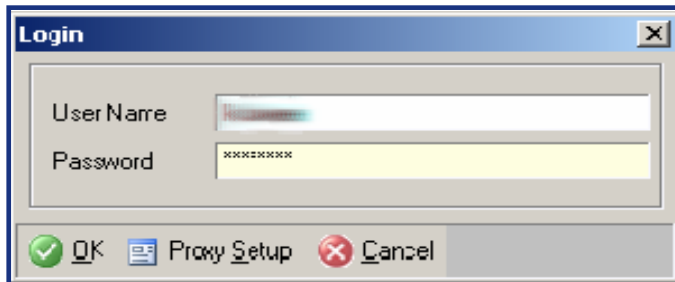
Store the proxy settings

Username and password for the internet connection (not DPP username and DPP password)

located proxy Servers

3.3 Launching DPP WebClient from desktop with proxy setting

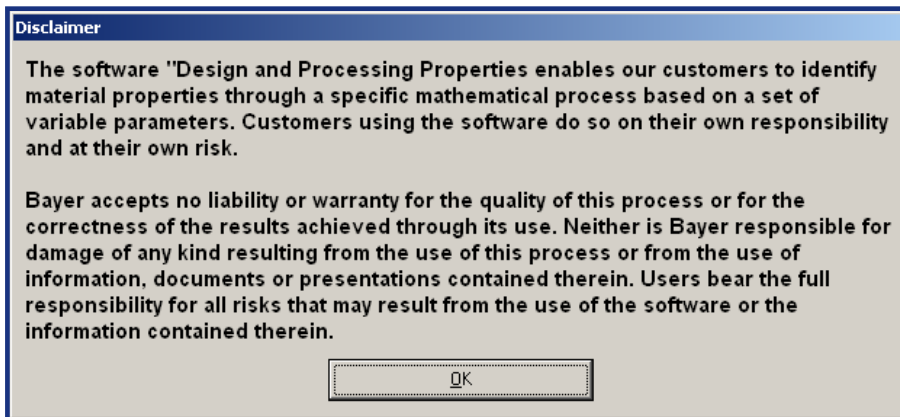
4



Enter DPP-Name + DPP-Password

(Registration data in the TechCenter of Bayer MaterialScience)

4



Approve disclaimer

4.1 DPP „Navigation“ menu: Choose DPP Modules via icons or menu

click on DPP Module-Icon

choose DPP Module from pop-up menu

- Design Properties
- Rheological Properties
- Processing Properties
- Mechanical Properties
- Virtual Lab Generation
- Virtual Lab Results
- Data Sheet
- Product Info

4.2 DPP „Extras“ menu: Define an injection molding screw

The screenshot displays the 'Design and Processing Properties' (DPP) software interface. The 'Extras' menu is open, highlighting the 'Screw Geometry' option. A 'Screw Geometry' dialog box is open, showing various parameters for defining an injection molding screw. The dialog box includes a 'Standard Geometry' checkbox and several input fields for screw geometry parameters.

Screw Geometry

Display Data Sheet Control Options

Screw Geometry

Parameter	Value	Unit
Pitch of Metering section	45,00	mm
Channel Width of Metering	38,38	mm
Length of Metering section	180,00	mm
Flight Depth of Metering section	2,94	mm

Standard Geometry

OK Cancel

Screw geometry:

- use Bayer Standard
- specify your own geometry

The background shows a stress-strain graph with multiple curves for different temperatures: -20 °C, 0 °C, 40 °C, and 60 °C. The y-axis is labeled 'Stress [MPa]' and ranges from 40 to 90. The x-axis is labeled 'Strain [%]' and ranges from 0 to 120. The graph shows that as temperature increases, the yield strength of the material decreases.

4.3 DPP „Display Data Sheet Control“ Menu: Selective data transfer

The screenshot displays the 'Design and Processing Properties' software interface. A blue callout box highlights the 'Display Data Sheet Control' menu, which is open, showing options: 'Screw Geometry', 'Display Data Sheet Control', and 'Options'. Below this, a 'Data Sheet [2 Point(s)]' dialog box is shown with the following controls:

- Navigation arrows (back, forward)
- Buttons: 'Load', 'Point', 'Delete', 'Storage', 'All Results', 'Results in target profile'
- Radio buttons for 'Storage', 'All Results', and 'Results in target profile' (the 'Storage' option is selected)
- A numeric input field showing '2'

The background shows a stress-strain graph with multiple curves labeled with temperatures: 60 °C, 90 °C, and 120 °C. The y-axis is 'Stress [MPa]' ranging from 40 to 90, and the x-axis is 'Strain [%]'.

By activating the data sheet control individual calculation lines can loaded or deleted (point: ...) from the Virtual lab (all results, results in the target profile) or Datasheet (file) into the Processing and Mechanical module.

4.4 DPP „Options“ Menu: DPP user settings

The screenshot displays the 'Design and Processing Properties' (DPP) software interface. A blue callout box highlights the 'Options' menu item, which is expanded to show 'Screw Geometry', 'Display Data Sheet Control', and 'Options'. A light blue box on the right lists the settings specified in the 'Options' dialog boxes:

- Language
- Unit system
- Properties

The 'Options' dialog boxes are shown in the foreground, each with a different tab selected:

- Language:** Shows 'English' and 'German' as available options.
- Unit System:** Shows 'metric' and 'US' as available options.
- Properties:** Shows several checked options: 'Warning Limit Exceeded', 'Deletion after Confirmation', 'Warning High Number of Virt. Experiments', and 'Refresh 3D-Graphic Automatically'. It also includes a '2D Drawing Width' dropdown set to '3', and 'Import Path' and 'Export Path' text boxes both set to 'c:\'.

The background interface shows a 'Screw Geometry' table with columns for 'Type' and 'Calcs', a 'Design Properties' table with 'Min.' and 'Max.' values for 'x-Axis' and 'y-Axis', and a 'Stress [MPa]' graph with curves for different temperatures (-20 °C, 0 °C, 23 °C). A 'Display Parameters Short Term' panel shows 'Temperatures' and 'Admissible Load' settings.

4.5 DPP „Contact“

Internet
E-Mail

Internet: Link to inquiry form on plastics.bayer.com
E-Mail: Contact addresses:
pcs-info@bayermaterialscience.com

Material	Type	Color
1605		000000
1605		000000
1603		
1897		
2000		
DP1-9379		

Design Properties

Graphic

	Min.	Max.	Auto
x-Axis	0.00	140.00	<input checked="" type="checkbox"/>
y-Axis	0.00	90.00	<input checked="" type="checkbox"/>

Stress [MPa]

Strain [%]

Temperatures: -40 min. Temp. [°C], 140 max. Temp. [°C]

Admissible Load

Load Type / Reduction

Connection: <http://217.6.32.100/DPPWebService3/ProWorkSWebService.aspx>

4.6 DPP „?“ Menu: DPP online help + version

✓ Online Help
Info

? choose:
✓ enable or disable online help (tooltips)
• further details

About

Bayer MaterialScience Design and Processing Properties
Bayer MaterialScience
Version 2.3.97
Demoversion

Demoversion - Unauthorized copy not allowed!

OK
System Info...

Minimum system requirements

- Broadband internet access
- Windows® 2000/XP SP2
- Microsoft® Internet-Explorer 5.5
- .NET 2.0

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