



PolyPlus

Property data for thousands of non-metallic materials



Polymers



Ceramics



Composites

PolyPlus is the non-metallic material properties dataset for thousands of plastics, ceramics and composites

The Challenge

- Finding precise traceable standard and proprietary material property data for polymers, composites and ceramics
- Simultaneous comparison of different kinds of metallic and non-metallic materials and finding the best alternatives
- Sourcing rare advanced properties information for FEA/CAE calculations including stress-strain and fatigue data

The Solution

- ✓ Non-metallic material properties data for tens of thousands of plastic, ceramic and composite materials
- ✓ Containing thousands of both standard and proprietary materials
- ✓ Effortless searching of advanced property data for non-metallics including stress strain curves and cyclice properties

The Benefits

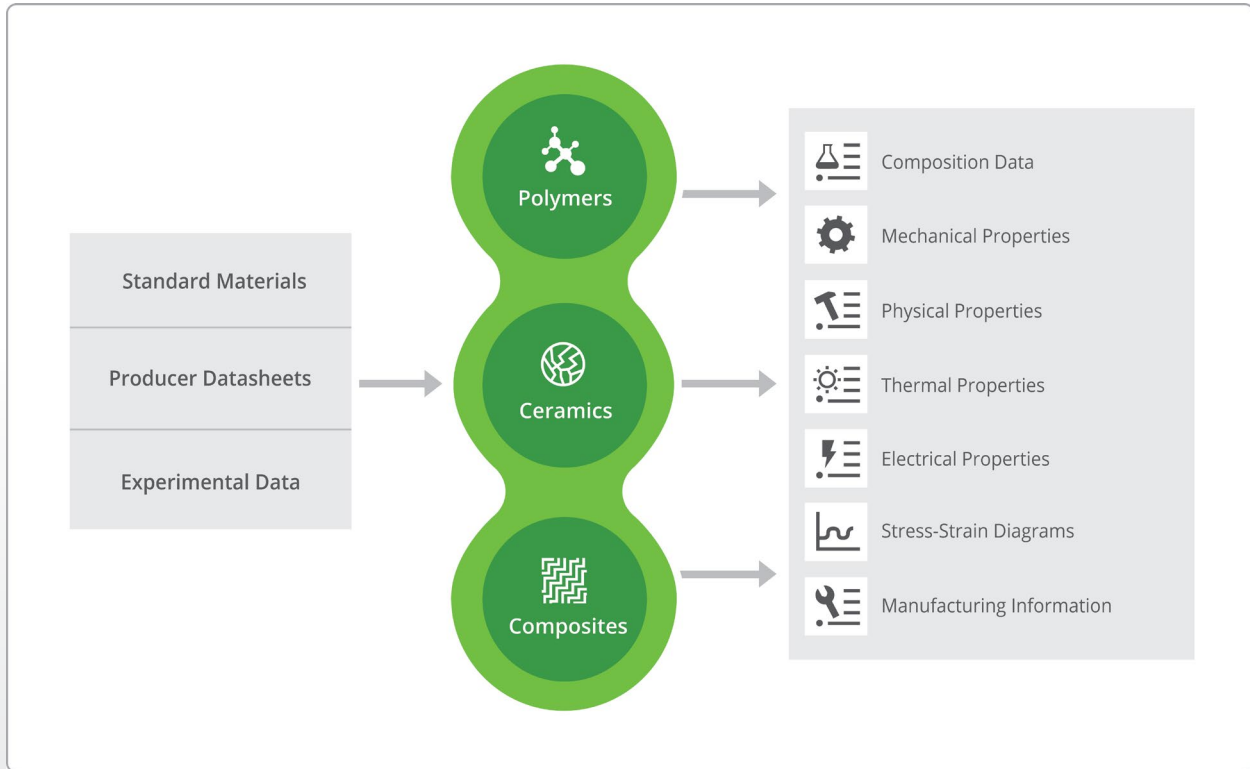
- One stop resource for all material properties data needs
- New opportunities in design by comparing the performance of completely diversified materials



Total Materia



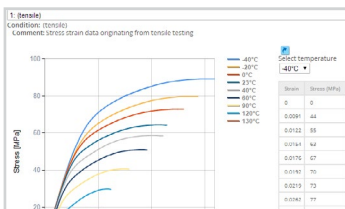
Integrated with the Total Metals database which contains over 200,000 metallic alloys, PolyPLUS allows Total Materia to be used as a truly one stop solution for your material needs.



Mechanical Properties		
Select condition	Value	Test Method
1: 50% RH		
Ball indentation (hardness) (MPa)	126	ISO 2039-1
Flexural Strength (MPa)		
2 mm/min	105	ISO 178
at 3.5h Soak: 2 mm/min	85	ISO 178
Tensile Strength (MPa)		
at Strain: 5 mm/min	< 4	ISO 527-1/-2
at Yield: 5 mm/min	< 4	ISO 527-1/-2

Ultimate one stop resource for all material property needs

In combination with the world's most comprehensive metals properties database, PLUS provides the all the benefits of the Core database for non-metals including property information for thousands of plastics, ceramics and composite materials and all available at the click of a button!



Advanced property data for non-metals

As well as housing a unique collection of advanced property data for metallic materials, Extended Range also offers a comprehensive set of stress strain curves and fatigue data for non-metals.

Physical Properties		
Select condition	Value	Test method
Unbonded		
Strain Content (%)	33	QC-PT-37
24°C		
Volatiles Content (%)	< 2	QC-PT-16
121°C		
Cured, Heat resin		
Module of Elasticity (GPa)		

Unparalleled developments and upgrades

Through our dedicated PLUS team, new data and functionality upgrades are added on a monthly basis meaning that our growing library of non-metals is fast becoming an indispensable resource for the engineering community.