



## Order Form

### Contact Information:

Name: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Country: \_\_\_\_\_

### General Information

#### Pricing:

Please contact your local representative for a formal quote. **Expedite** options are available for an additional fee.

#### Molding Capabilities:

The tests listed are applicable for standard thermoplastic materials. Other material types must be approved by the Materials Lab Manager. We have the capability to test materials up to melt temperatures of 380°C and mold temperatures of 200°C.

#### Shipping:

Shipping of resin is to be arranged and paid for by the customer. We recommend shipping via FedEx, UPS, DHL, or other International Shipper to reduce issues with customs clearance. BAP is not liable for any import tax or duties incurred.

Shipping of molded test specimens will be arranged and paid for by Beaumont, except in the event of international shipments. For international shipments, the customer must provide a shipping account.

#### Materials originating within the USA require:

- Completed Material Characterization Order Form;
- English version Material Safety Data Sheet (MSDS).

#### Materials originating outside the USA require:

- Completed Material Characterization Order Form;
- Commercial Invoice (please quote a nominal value for customs purposes only);
- English version Material Safety Data Sheet (MSDS);
- Toxic Substance Control Act (TSCA) Declaration

#### Delivery:

Delivery times are dependent on laboratory workload. Expedite orders are evaluated upon request and availability is dependent on laboratory workload, material type, etc. A confirmation of delivery date will be sent to the customer upon receipt of the material and other prerequisites.

#### Confidentiality Policy:

Non confidential characterized materials will be included on the Public Material Database (subject to the approval of the resin manufacturer) and are available to all customers.

Confidential testing is available for an additional fee. Information or data pertaining to Confidential materials will not be released without the written consent of the customer who ordered the testing. **Confidential Moldflow material data is subject to being shared with Autodesk in order to maintain CRIMS data for new releases.**

#### Contact Information:

BAP Material Characterization Division  
10524 Crosby Circle  
Cranesville PA 16410 USA  
Phone: +1-814-899-6390  
E-mail: jtrott@bapmolding.com

# Material Characterization Options

**NOTE: FOR JUST MATERIAL CHARACTERIZATION, ONLY FILL OUT MATERIAL CHARACTERIZATION PORTION OF ORDER FORM.**

**Material:**

Data Status: \*                     Not Confidential     Confidential (surcharge applies, order MPL-001)

Material Type                     Thermoplastic         MIM/PIM/CIM/Misc.

Family Abbreviation: \_\_\_\_\_

Trade Name / Grade: \_\_\_\_\_ (Official name entered into software)

Lot Number: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Filler 1 (% and type): \_\_\_\_\_

Filler 2 (% and type): \_\_\_\_\_

Filler Status: \*\*                 Not Confidential     Confidential

\* DATA STATUS: Non-confidential selection is discounted in price and will be included in the public database. Third party customers must have a signed authorization form by the material manufacturer to receive this discounted price.

\*\* FILLER STATUS: Filler status only pertains to what information will show up in the material file. This option does not dictate the data status as confidential or nonconfidential.

**Pre-processing Conditions:**

Drying Needed?                 Yes     No

Temperature (°C): \_\_\_\_\_

Time (Hours): \_\_\_\_\_

Target Moisture (%): \_\_\_\_\_

**Processing Conditions:**

Melt Processing Temperature Range (°C):                Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Mold (Die) Temperature Range (°C):                    Minimum: \_\_\_\_\_ Maximum: \_\_\_\_\_

Decomposition Temperature (°C): \_\_\_\_\_

**Special Instructions & Precautions:**

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Code	Test Description	Material	Select
MPL-001	<b>Confidential Testing</b> <i>Data will not be added to the Public Material Database.</i>	-	<input type="checkbox"/>
MPL-110	<b>Autodesk Moldflow Filling</b> <i>Includes: Shear Viscosity, Specific Heat, Thermal Conductivity, Mold Validation. Supplemental Data: PvT and Mechanical, unless provided by the customer.</i>	25kg	<input type="checkbox"/>
MPL-125	<b>Autodesk Moldflow Filling and Packing</b> <i>Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, Mold Validation. Supplemental Data: Mechanical. Supplemental Data: Mechanical, unless provided by the customer.</i>	25kg	<input type="checkbox"/>
MPL-130	<b>Autodesk Moldflow Filling, Packing, 3D Shrinkage and Warpage</b> <i>Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, CLTE and Mechanical, Mold Validation. (NO CRIMS)</i>	40kg	<input type="checkbox"/>
MPL-135	<b>Autodesk Moldflow Filling, Packing and Shrinkage</b> <i>Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, Shrinkage Analysis (CRIMS), Mold Validation. Supplemental Data: Mechanical, unless provided by the customer.</i>	50kg	<input type="checkbox"/>
MPL-150	<b>Autodesk Moldflow Filling, Packing, Shrinkage and Warpage</b> <i>Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, CLTE and Mechanical, Shrinkage Analysis (CRIMS), Mold Validation.</i>	50kg	<input type="checkbox"/>
MPL-185	<b>MIM/PIM/CIM</b> <i>Includes: Shear Viscosity by Capillary Rheometer, Thermal Conductivity, Specific Heat, PvT</i>	2kg +Molded Part**	<input type="checkbox"/>
Therma-flo	<i>Polymer analysis method and software that measures and displays the material properties of a plastic melt in actual molding conditions.</i>	15kg	<input type="checkbox"/>
<b>Individual Testing Add-ons</b>			
Code	(Not included in any standard package)	Material	Select
MPL-410	<b>Viscoelasticity for Birefringence</b> <i>Viscoelastic properties used for the Birefringence model tested by Autodesk Moldflow Plastics Labs in Australia (customer supplied Stress Optical coefficient and refractive index of the unoriented melt)</i>	5kg	<input type="checkbox"/>
MPL-420	<b>Crystallization</b> <i>Crystalline kinetic properties tested by Autodesk Moldflow Plastics Labs in Australia</i>	2kg	<input type="checkbox"/>
MPL-036	<b>Pressure Dependent Viscosity by IMR</b> <i>Characterizes the Cross-WLF model with the D3 coefficient. Must be ordered with MPL-035 or a test containing MPL-035.</i>	5kg	<input type="checkbox"/>
MPL-037	<b>High Shear Viscosity by IMR</b> <i>Extremely high shear rates in addition to the standard shear rate profile. Must be ordered with MPL-035 or a test containing MPL-035.</i>	5kg	<input type="checkbox"/>
<b>Individual testing</b>			
Code	(Included in most standard packages)	Material	Select
MPL-013	<b>pvT (Pressure – Volume – Temperature)</b> <i>Understanding the relationship of specific volume to pressure and temperature conditions</i>	5kg or Molded Part**	<input type="checkbox"/>
MPL-032	<b>Shear Viscosity by Capillary Rheology</b> <i>Requires thermal data to process result; customer supplied or ordered.</i>	2kg	<input type="checkbox"/>
MPL-035	<b>Shear Viscosity by IMR</b> <i>Requires thermal data to process result; customer supplied or ordered.</i>	10kg	<input type="checkbox"/>
MPL-050	<b>Specific Heat</b> <i>DSC thermal scan including multi-point Specific Heat, Transition Temperature and Ejection Temperature.</i>	2kg	<input type="checkbox"/>
MPL-056	<b>Thermal Conductivity</b> <i>Transient Plane thermal scan evaluating multi-point Thermal Conductivity</i>	5kg or Molded Part**	<input type="checkbox"/>
MPL-205	<b>Shrinkage</b> <i>Autodesk Proprietary testing fit to the CRIMS model. Requires filling and packing data to process result; customer supplied or ordered.</i>	25kg	<input type="checkbox"/>
MPL-355	<b>CTE and Mechanicals</b> <i>Molding of Mechanical Plaques to test, CLTE (Longitudinal &amp; Transverse), Elastic Modulus (Longitudinal &amp; Transverse), Shear Modulus, Poisson's Ratio (Longitudinal &amp; Transverse).</i>	15kg	<input type="checkbox"/>

\*\*Molded parts need to be roughly 3.2mm thick and larger than 50mm in diameter.

## Test Specimen Molding Options

**NOTE: FOR JUST TEST SPECIMEN MOLDING, ONLY FILL OUT TEST SPECIMEN MOLDING PORTION OF ORDER FORM.**

**Pre-Processing and Processing Conditions:**

- BAP to use online database or generic values based on the material type. BAP reserves the right to use processing and pre-processing conditions of their discretion.
- Customer to provide the necessary processing and pre-processing conditions before molding.

**Shipping Instructions:**

Completed specimens are to be shipped to:

- Customer address listed on first page
- UL facility for testing\*
- Alternate Address\*\*

\*If shipment is to go directly to a UL facility, please provide a SampleReqForm or FUS tag to accompany shipment.  
 \*\*If shipping to more than one address, provide both addresses and confirm which specimens should be shipped to each location.

Alternate or Second Address:

Company: \_\_\_\_\_ Attention: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Country: \_\_\_\_\_

**International shipments must provide shipping account information.**

- FedEx
- UPS
- DHL
- Other: \_\_\_\_\_

Account Number: \_\_\_\_\_

Associated Zip Code: \_\_\_\_\_

Associated Phone Number: \_\_\_\_\_

**Special Instructions & Precautions:**

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<b>BAP Material Characterization Division</b> <b>10524 Crosby Circle</b> <b>Cranesville PA 16410</b>	<b>Material Characterization Order Form</b>	
	<b>BAP-QF-8628</b>	<b>Rev. Rel</b>
	<b>Date: 9/19/2022</b>	<b>Page 5 of 5</b>

**A complete list of available test specimens can be found at [www.bapmolding.com](http://www.bapmolding.com)**

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_

Specimen Type: \_\_\_\_\_

Qty of Specimens: \_\_\_\_\_

Material(s): \_\_\_\_\_

\_\_\_\_\_