

BAP Material Characterization Division 10524 Crosby Circle Cranesville, PA 16410	Material Characterization Order Form	
	BAP-QF-8660	Rev. 3
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Material Characterization Order Form

Contact Information:

Name: _____

Phone: _____ Email: _____

Company: _____

Address: _____

City: _____ State: _____ ZIP Code: _____ Country: _____

If not purchasing directly through Beaumont, please provide **reseller company name**: _____

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 Material Characterization Division Director. 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, or DHL to reduce issues with customs clearance. BAP is not liable for any import tax or duties incurred.

- Materials originating within the USA require: Completed Material Characterization Order Form, English version Material Safety Data Sheet (MSDS)
- Materials originating outside of USA require: Completed Material Characterization Order Form, English version Material Safety Data Sheet (MSDS), Commercial Invoice (please quote a nominal value for customs purposes only), 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 (removes discount provided for public, non-confidential testing). 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/STAMP 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

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Material Information:

Data Status: ☐Non-Confidential ☐Confidential

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

Material Type: ☐Thermoplastic ☐MIM/PIM/CIM

Family Abbreviation: _____

Trade Name / Grade: _____ **(Official Name in Software)**

Lot Number: _____

Manufacturer: _____

Filler (% and type): _____

Filler (% and type): _____

Filler Status: ☐Non-confidential ☐Confidential

** Filler Status: Filler status only pertains to what filler 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

Dryer Temperature (°C): _____

Drying Time (Hours): _____

Max. Recommended Moisture (%): _____

Processing Conditions:

Melt Processing Temperature Range (°C)

_____ (Minimum) _____ (Suggested) _____ (Maximum)

Mold (Die) Temperature Range (°C)

_____ (Minimum) _____ (Suggested) _____ (Maximum)

Decomposition Temperature (°C) _____ (If a decomposition temperature is not provided, a generic value will be utilized).

Autodesk Moldflow Sustainability Descriptors (Optional):

The completion of this section is optional for customers ordering Autodesk Moldflow Material Characterization. If chosen to report this information, the data will be available with 2025 release of Autodesk Moldflow products.

Sustainability Field	Available Values	Assigned Value
Minimum Potential Biomass Sourced Feedstock	0-100%	
Maximum Potential Biomass Sourced Feedstock	0-100%	
Biodegradable?	Yes / No	
Minimum Recycled Content	0-100%	
Maximum Recycled Content	0-100%	
Recycling Method	Unknown / Mechanical / Chemical / Other	
Recycled Source	PCR / PIR / Other	
Comments on Environmental Impact		

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Full Characterization Packages

Code	Test Description	Material	Select
MPL-001	Confidential Testing: Data will not be added to the Public Material Database.	-	☐
MPL-156	Includes: Shear Viscosity by IMR, Pressure Dependent Viscosity by IMR, Extensional Viscosity, Specific Heat, Thermal Conductivity, PvT, CLTE and Mechanical, Shrinkage Analysis (CRIMS/STAMP), Mold Validation. Valid For: Autodesk Moldflow Filling, Packing, Shrinkage and Warpage Rating: Gold / Gold / Gold	55kg	☐
MPL-150	Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, CLTE and Mechanical, Shrinkage Analysis (CRIMS/STAMP), Mold Validation. Valid For: Autodesk Moldflow Filling, Packing, Shrinkage and Warpage Rating: Gold / Gold / Gold	50kg	☐
MPL-185	Includes: Shear Viscosity by Capillary Rheometer, Thermal Conductivity, Specific Heat, PvT Valid For: MIM / PIM / CIM Autodesk Moldflow Filling and Packing Rating: Gold / Gold / Bronze *Molded parts need to be roughly 3.2mm thick and larger than 50mm in diameter.	5kg + Molded Part*	☐

Partial Characterization Packages

Code	Test Description	Material	Select
MPL-001	Confidential Testing: Data will not be added to the Public Material Database.	-	☐
MPL-135	Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, Shrinkage Analysis (CRIMS/STAMP), Mold Validation. Supplemental Data: Mechanical, unless provided by the customer. Valid For: Autodesk Moldflow Filling, Packing and Shrinkage Rating: Gold / Gold / Gold	50kg	☐
MPL-130	Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, CLTE and Mechanical, Mold Validation. Valid For: Autodesk Moldflow Filling, Packing, Basic Shrinkage and Warpage (NO CRIMS/STAMP) Rating: Gold / Gold / Gold	40kg	☐
MPL-125	Includes: Shear Viscosity by IMR, Specific Heat, Thermal Conductivity, PvT, Mold Validation. Supplemental Data: Mechanical, unless provided by the customer Valid For: Autodesk Moldflow Filling and Packing Rating: Gold / Gold / Bronze	25kg	☐
MPL-110	Includes: Shear Viscosity, Specific Heat, Thermal Conductivity, Mold Validation. Supplemental Data: PvT and Mechanical, unless provided by the customer. Valid For: Autodesk Moldflow Filling Rating: Gold / Bronze / Bronze	25kg	☐

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Individual Testing Options (Not Included in Standard Packages)

Code	Test Description	Material	Select
Therma-flo	Polymer analysis method and software that measures and displays the material properties of a plastic melt in actual molding conditions.	5kg	☐
MPL-037	High Shear Viscosity by IMR: Extremely high shear rates in addition to the standard shear rate profile. Must be ordered with MPL-035 or a test containing MPL-035. Unavailable for high viscosity or reinforced materials.	5kg	☐
MPL-410	Viscoelasticity for Birefringence: Viscoelastic properties used for the Birefringence model (customer supplied Stress Optical coefficient and refractive index of the unoriented melt).	5kg	☐
MPL-420	Crystallization: Crystalline kinetic properties.	1kg	☐

Individual Testing Options (Included in Some Standard Packages)

Code	Test Description	Material	Select
MPL-013	pVT (Pressure – Volume – Temperature): Understanding the relationship of specific volume to pressure and temperature conditions *Molded parts need to be roughly 3.2mm thick and larger than 50mm in diameter.	4kg or Molded Part*	☐
MPL-032	Shear Viscosity by Capillary Rheology: Requires thermal data to process result; customer supplied or ordered.	2kg	☐
MPL-035	Shear Viscosity by IMR: Requires thermal data to process result; customer supplied or ordered.	10kg	☐
MPL-036	Pressure Dependent Viscosity by IMR: Characterizes the Cross-WLF model with the D3 coefficient. Must be ordered with MPL-035 or a test containing MPL-035.	5kg	☐
MPL-039	Extensional Viscosity: Correlation for Extensional Viscosity model must be accompanied by Shear Viscosity (MPL-035). Model fit is not guaranteed.	-	☐
MPL-050	Specific Heat: DSC thermal scan including multi-point Specific Heat, Transition Temperature and Ejection Temperature.	1kg	☐
MPL-056	Thermal Conductivity: Transient Plane thermal scan evaluating multi-point Thermal Conductivity *Molded parts need to be roughly 3.2mm thick and larger than 50mm in diameter.	4kg or Molded Part*	☐
MPL-205	Shrinkage: Autodesk Proprietary testing fit to the CRIMS/STAMP model. Requires filling and packing data to process result; customer supplied or ordered.	25kg	☐
MPL-355	CTE and Mechanicals: Molding of Mechanical Plaques to test, CLTE (Longitudinal & Transverse), Elastic Modulus (Longitudinal & Transverse), Shear Modulus, Poisson's Ratio (Longitudinal & Transverse).	15kg	☐

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Special Notes and Precautions: