

The background of the image is a close-up, high-angle shot of a complex industrial machine, likely a CNC lathe or a similar precision manufacturing tool. The machine's frame is painted in a vibrant teal or light blue color. Various components are visible, including a large, polished metal conical part on the right, a flexible white corrugated hose, and several black cables. The machine is set in a clean, industrial environment. Overlaid on the left side of the image is a large, bright yellow circle. Inside this circle, the main title is written in a bold, sans-serif font. The text is split into two colors: black for the first part and white for the second part, creating a high-contrast, modern look. The overall composition is dynamic and professional, emphasizing precision and technology in plastics manufacturing.

EVALUATION AND TESTING PROGRAMS FOR PLASTICS MANUFACTURING OF KNOW-HOW IN POLYMERS AND PLASTICS PROCESSABILITY



Evaluation and testing programs for plastics manufacturing characteristics

Intertek independent plastic materials and compounds processability evaluation, and expertise assist the industry by reducing the material development time, and shorten design and production lead times. Our portfolio includes specialists material knowledge, and testing for plastic materials, composites, lightweight and innovative materials.

Intertek laboratories operate under the relevant quality standards (e.g. ISO 17025, A2LA) and have extensive knowledge on ISO, ASTM and other related standards. Testing and/or component or test specimen processing can be done with a very short turnaround time 24/7, 365 days a year.

Please contact us for further and more information or to discuss your specific demands with one of our polymer engineers.



Know-how in polymers and plastics processability.

Our expertise

Lead by market demands, like environmental, design and safety issues; continuous material innovation in the polymers and plastics industry is very important to stay ahead of competition. In order to be compatible with its intended use polymer materials need to comply with a wide range of parameters and regulations depending on its application and the geographical market.

Identification of feasibility, processability and marketability in an early stage of development will give you the huge advantage of saving time to market. Intertek polymers and plastics material experts assist companies in putting together an appropriate material processing verification program and deliver support in polymer materials R&D.

Global polymer services include:

- Standardised testing according international and customer specific standards
- High-end laboratory support in R&D
- Advanced chemical analyses of polymer materials including base materials, additives, pigments, contamination and purity
- Environmental impact testing
- Processability testing and evaluation
- Physical and mechanical material characterization (ISO 17025, A2LA)
- Processing of test specimens
- Test method development
- Durability and performance testing / HAST, FMVT®
- Supply chain management
- Product safety testing
- System certification services e.g. ISO 9001, ISO 14000 and ISO/TS 16949
- Regulatory and product safety advisory services, including REACH and food contact safety

Processing capabilities

Our expertise includes decades of experience in the polymer and related industries. We are able to assist clients in material processability evaluation with a broad combination of processing and material characterisation techniques. Our processing capabilities include moulding, injection moulding, spiral flow, compounding, blown and cast film extrusion and barrel and screw evaluation. Combined with a long list of material characterisation techniques Intertek experts are able to define processability characteristics of your polymer materials, testing includes:

- Tensile/flexural/bend testing
- Thermal properties - DSC / TGA
- HDT / Vicat
- Dimensional stability
- Scratch
- Hardness
- DM(T)A
- Capillair viscometry
- Solution Viscosity
- Coefficient of friction
- Density
- Color/haze/gloss
- Brittleness
- Contact angle
- Surface energy
- Gelboflex
- Hottack
- Tear/wear
- Electrical properties
- PSD
- Flammability
- (HT)- GPC
- NMR, GPC-NMR
- SIMS-TOF
- SEM, TEM
- Salt spray
- Weathering



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