



## Product Data Sheet & General Processing Conditions

### Polabond® 6003-55A Speciality Thermoplastic Elastomer PC/PMMA, PC/PBT bondable

#### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.98	0.98	D 792
<b>MECHANICAL</b>			
Tensile Strength			
Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	900 psi	6 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	630.0 %	630.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	300.0 psi	2.1 MPa	D 412
Tear Strength, Die C	170.0 pli	29.8 N/mm	D 624
Peel Strength ***			
90 degrees, 20 in/min (500 mm/min)			
PC/PMMA, Failure Type D	33.0 pli	5.8 N/mm	RTP 55
PC/PBT, Failure Type D	31.0 pli	5.4 N/mm	RTP 55
CoPolyester, Failure Type R	25.0 pli	4.4 N/mm	RTP 55
Compression Set			
22 h @ 23 °C (73 °F), Method B, Type 2	19 %	19 %	D 395
22 h @ 70 °C (158 °F), Method B, Type 2	65 %	65 %	D 395
Hardness			
Shore A, 10 s delay	55	55	D 2240
<b>THERMAL</b>			
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

#### PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per RTP Company testing.

\*\*\* Values per RTP Company testing. Failure types: R=overmold failure, D=interface failure, S=substrate failure.

#### GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Melt Temperature	380 - 460 °F	193 - 238 °C
Mold Temperature	70 - 120 °F	21 - 49 °C
Drying	2 - 4 hrs @ 180 °F	2 - 4 hrs @ 82 °C
Moisture Content	< 0.03 %	< 0.03 %
Dew Point	0 °F	-18 °C

#### PROCESSING NOTES

Desiccant Type Dryer Required.

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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