

RTP 6003-45A

Thermoplastic Elastomer

RTP Company

Message:

Bondable to PC/PMMA, PC/PBT

General Information			
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	2.8	%	ASTM D955
Moisture Content	0.040	%	
Peel Strength ¹			
PC/PBT	3.5	kN/m	
PC/PMMA	4.2	kN/m	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	0.965	MPa	ASTM D412
100% strain	1.31	MPa	ASTM D412
300% strain	2.41	MPa	ASTM D412
Tensile Strength (Yield)	4.14	MPa	ASTM D412
Tensile Elongation (Yield)	900	%	ASTM D412
Tear Strength ²	21.0	kN/m	ASTM D624
Compression Set ³			ASTM D395B
23°C, 22 hr	16	%	ASTM D395B
70°C, 22 hr	66	%	ASTM D395B
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	76.7	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	193 - 238	°C	
Mold Temperature	21.1 - 48.9	°C	
Injection Pressure	34.5 - 103	MPa	
Injection instructions			
Desiccant Type Dryer Required.			

NOTE	
1.	90°, 20 in/min, RTP 55, Interface Failure
2.	C mould
3.	Type 2

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Recommended distributors for this material

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