

## POLYCARBONATE MOLDING COMPOUNDS TYPICAL PROPERTIES (1)

Properties	Test Method	Units	Polycarbonate 10% Glass Reinforced	Polycarbonate 20% Glass Reinforced	Polycarbonate 30% Glass Reinforced	Polycarbonate 30% Glass Reinforced 15% PTFE
<b>Physical</b>						
Specific Gravity	ASTM-D792	----	1.25	1.34	1.43	1.52
Water Absorption (24 hr)	ASTM-D570	%	0.11	0.16	0.14	0.08
<b>Mechanical</b>						
Tensile Strength (73°F)	ASTM-D638	psi	9,500	16,000	18,500	18,000
Tensile Elongation	ASTM-D638	%	9-10	5	4-6	4-6
Flexural Strength	ASTM-D790	psi	15,900	23,100	28,000	29,800
Flexural Modulus	ASTM-D790	psi	490,000	810,000	1,200,000	1,000,000
Izod Impact Strength	ASTM-D256	ft. lb./in.				
Notched (1/8")			2.0	2.4	3.7	4.0
Rockwell Hardness	ASTM-D785	M or R Scale	R119	M92, R119	M97, R118	M97, R118



**The Resin Enterprise, Inc.**

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**POLYCARBONATE MOLDING COMPOUNDS TYPICAL PROPERTIES (1 CONT'D)**

Properties	Test Method	Units	Polycarbonate 10% Glass Reinforced	Polycarbonate 20% Glass Reinforced	Polycarbonate 30% Glass Reinforced	Polycarbonate 30% Glass Reinforced 15% PTFE
<b>Thermal</b>						
Heat Deflection Temp.	ASTM-D648	°F				
66 psi			295	305	305	305
264 psi			209	300	300	300
Coefficient of Linear Thermal Expansion	ASTM-D696	in./in./ °F X 10 <sup>-5</sup>	1.8	1.8	1.3	1.0
<b>Electrical</b>						
Dialectric Strength (S/T)	ASTM-D149	volts/mil	450	490	500	465
<b>Miscellaneous</b>						
Flammability	UL SUBJ. 94	----	94V-1	94V-0	94V-0	94V-2
Mold Shrinkage (1/8")	ASTM-D955	in./in.	0.003	0.015	0.001	0.001

\*Available in window clear, blue tint or black; other melt flows available from 6-18



## POLYCARBONATE MOLDING COMPOUNDS TYPICAL PROPERTIES (2)

Properties	Test Method	Units	PC 6-8 Melt*	PC 10-12 Melt*	PC 15-17 Melt*	PC High Flow	
<b>Physical</b>							
Specific Gravity	ASTM-D792	----	1.2	1.2	1.2	1.2	
Water Absorption (24 hr)	ASTM-D570	%	0.15	0.15	0.15	0.15	
<b>Mechanical</b>							
Tensile Strength	ASTM-D638	psi	9,000	9,000	9,000	9,100	
Tensile Elongation	ASTM-D638	%	7	7	7	6	
Flexural Strength	ASTM-D790	psi	13,500	14,000	14,000	13,100	
Flexural Modulus	ASTM-D790	psi	340,000	340,000	340,000	334,000	
Izod Impact Strength	ASTM-D256	ft. lb./in.					
			Notched (1/8")	17	15	13	
			Unnotched (1/8")	60	60	60	NB
Rockwell Hardness	ASTM-D785	R Scale	118	118	118		

\*Available with or without UV, no tint or blue tint



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**POLYCARBONATE MOLDING COMPOUNDS TYPICAL PROPERTIES (2 CONT'D)**

Properties	Test Method	Units	PC 6-8 Melt*	PC 10-12 Melt*	PC 15-17 Melt*	PC High Flow
<b>Thermal</b>						
Heat Deflection Temp.	ASTM-D648	°F				
66 psi			280	208	280	271
264 psi			270	270	265	250
Coefficient of Linear Thermal Expansion	ASTM-D696	in./in./ °F X 10-5	3.8	3.85	3.85	3.9
<b>Electrical</b>						
Dialectric Strength (S/T)	ASTM-D149	volts/mil	380	380	380	430
<b>Miscellaneous</b>						
Flammability	UL SUBJ. 94	----	HB	HB	HB	HB
Mold Shrinkage (1/8")	ASTM-D955	in./in.	0.005-0.007	0.005-0.007	0.005-0.007	0.005-0.007

\*Available with or without UV, no tint or blue tint

Suggested processing parameters are available upon request. Seller is not responsible or liable for any loss or damage resulting from product use, and no warranty is stated or implied.



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