

### Injection Molding

#### Description

PC 1813 is a mid-flow, UV stabilized polycarbonate resin with mold release.

Property	Value	Unit	ASTM Test
Specific Gravity	1.20	g/cm <sup>3</sup>	D 792
Specific Volume	23.0	in <sup>3</sup> /lb	D 792
Melt Mass-Flow Rate (300°C/1.2 kg)	18	g/10 min	D 1238
Water Absorption 24 hr	0.15	%	D 570
Tensile Modulus	345000	psi	D 638
Tensile Strength at Yield	9000	psi	D 638
Tensile Strength at Break	9500	psi	D 638
Tensile Elongation at Yield	7.0	%	D 638
Tensile Elongation at Break	110	%	D 638
Flexural Modulus	334000	psi	D 790
Flexural Stress	135000	psi	D 790
Taber Abrasion Resistance	10.0	mg	D 1044
Notched Izod Impact, 73 °F	13	ft·lb/in	D 256
Unnotched Izod Impact, 73 °F	60	ft·lb/in	D 4812
Gardner Impact, 73 °F	1500	in·lb	D 3029
Tensile Impact Strength	260	ft·lb/in <sup>2</sup>	D 1822

This information, to our knowledge, is believed to be correct. The use of this product in its actual conditions are beyond our control and satisfactory results for this product is the customer's sole responsibility. User must make their own decisions regarding its suitability for their equipment and final products.

**GLOBAL PLASTICS LP**

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Property	Value	Unit	ASTM Test
Rockwell Hardness M-Scale	70		D 785
Rockwell Hardness R-Scale	118		D 785
Deflection Temp. Under Load, 66 psi	280	°F	D 648
Deflection Temp. Under Load, 264 psi	270	°F	D 648
Vicat Softening Temp.	310	°F	D 1525
CLTE, Flow -40 to 203°F	3.8E-5	in/in°F	E 831
Specific Heat	0.301	BTU/lb/°F	C 351
Volume Resistivity	>1.0E+17	ohms-cm	D 257
Dielectric Strength 0.126 in	380	V/mil	D 149
Dielectric Constant, 50 Hz	3.17		D 150
Dielectric Constant, 60 Hz	3.17		D 150
Dielectric Constant, 1 MHz	2.96		D 150
Refractive Index	1.586		D 542
Transmittance (100 mil)	88	%	D 1003
Haze	1.0	%	D 1003

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