

NAXELL™ PC100H-100 White

General Purpose, High MFR, White Polycarbonate

PC100H-100 is available in white, internal and external lubricants, and other modifications.
Further information and details are available upon request

Typical ISO Properties

Properties	Test Method	English Units		S.I. Units	
PHYSICAL					
Specific Gravity, solid	1183	NA	1.21	NA	1.21
Mold Shrinkage, flow. 0.125" (3.2mm)	294	in/in	0.005-0.008	%	0.5-0.8
Water Absorption @ 73F (23C), 24 hrs.	D 570	%	0.15	%	0.15
Melt Flow Rate @ 300C / 1.2kg, nominal	1133	g/10min	20	g/10min	20
MECHANICAL					
Tensile Strength @ Yield. (23 ⁰ C), (4 mm)	527	psi	8700	MPa	61
Tensile Elongation @ Break (23 ⁰ C), (4 mm)	527	%	80	%	80
Tensile Modulus – 4mm bar / 1mm/min	527	psi	355,000	MPa	2450
Flexural Modulus. 73 ⁰ F (23 ⁰ C), 0.125" (4 mm)	178	psi	335,000	MPa	2,300
Charpy Impact, notched. (23 ⁰ C), 0.125" (4 mm)	179 1eA	ft-lb/in	3	KJ/M ²	14
Instrumented Impact Total Energy. (23 ⁰ C), (2.0mm t Plaque), (Speed- 4m/s)	6603	ft-lb	33	J	45
THERMAL					
Deflection Temperature, unannealed. (4mm)	75				
264 psi (1.82 MPa), Load		⁰ F	250	⁰ C	120
66 psi (0.45 MPa), Load		⁰ F	275	⁰ C	135
Vicat Softening Temperature	306	⁰ F	285	⁰ C	140
CLTE. -30 ⁰ C - +110 ⁰ C (-22 ⁰ F - +230 ⁰ F)	11359	in/in/ ⁰ F	3.75 E-5	m/m/ ⁰ C	6.75 E-5

The values shown on the data sheet are typical values that have been obtained on typical MRC materials and are not intended for specification purposes. Information on this data sheet is provided without any warranty or guarantee. Each user of the material should make his own test to determine the suitability of the material for his use. Therefore, it is understood and agreed that the customer assumes and hereby releases MRC Polymers, Inc. from all liabilities, incurred in connection with the use of MRC's products, technical assistance, and information.