

Toraycon™ 8207X05 B

PC+PBT

TECHNICAL DATA

Product Description

High impact, Hydrolysis resistance, Low warpage

Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Interior Parts Safety Equipment
Processing Method	<ul style="list-style-type: none"> Injection Molding
ISO Designation	<ul style="list-style-type: none"> >PBT+PC-I<
Type	<ul style="list-style-type: none"> PBT/Unreinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.90	%	
Flow : 3.00 mm	0.80	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ISO 527-2
-40°C	86	MPa	
23°C	59	MPa	
80°C	35	MPa	
Tensile Strain			ISO 527-2
Break, -40°C	71	%	
Break, 23°C	> 80	%	
Break, 80°C	> 80	%	
Flexural Modulus			ISO 178
-40°C	2600	MPa	
23°C	2300	MPa	
80°C	1400	MPa	
Flexural Stress			ISO 178
-40°C	123	MPa	
23°C	91	MPa	
80°C	45	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	13.0	kJ/m ²	
23°C	65.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-40°C	No Break		
23°C	No Break		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	51		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	112	°C	ISO 75-2/B
1.8 MPa, Unannealed	96	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	8	cm ³ /cm/°C	ISO 11359-2



Additional Information

Bar Flow Length³ (250°C, 1.00 mm)

Nominal Value

43

Unit

mm

Test Method

Internal Method

Notes

¹ 80x80x3mm

² in water

³ 93MPa

Toray Industries, Inc.

