Toraycon™ 8207X01 B
PC+PBT

TECHNICAL DATA

Product Description

High impact, Low warpage

Uses	• Automotive Applications	• Automotive Exterior Parts
Processing Method	• Injection Molding	
ISO Designation	• >PBT+PC-I<	
Type	• PBT/Unreinforced	

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.22	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 3.00 mm	0.80	%	
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	61	MPa	
80°C	35	MPa	
Tensile Strain			ISO 527-2
Break, -40°C	37	%	
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	124	MPa	
23°C	91	MPa	
80°C	45	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-40°C	15.0	kJ/m²	
23°C	65.0	kJ/m²	
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	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	94	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	8	cm^-5/cm/°C	ISO 11359-2

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Flammability	Nominal Value	Unit	Test Method
Flame Rating [3] (Equivalent)	HB		Internal Method

Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length [4] (250°C, 1.00 mm)	58	mm	Internal Method

Notes

[1] 80x80x3mm

[2] in water

[3] UL94

[4] 93MPa