

ENDURAN* 7062X Resin

SABIC Innovative Plastics - Polybutylene Terephthalate + PET

General Information			
Product Description			
PBT+PET, 45% filler. UV-stabilized.			
General			
Filler / Reinforcement	• Unspecified Filler\nReinfor., 45 % Filler by Weight		
Forms	• Pellets		
Processing Method	• Injection Molding		
ASTM and ISO Properties ¹			
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.88	1.88	ASTM D792
Melt Mass-Flow Rate (MFR) (266°C/1.2 kg)	19 g/10 min	19 g/10 min	ASTM D1238
Molding Shrinkage (Flow, 0.126 in (3.20 mm))	0.0080 to 0.010 in/in	0.80 to 1.0 %	ASTM D955
Molding Shrinkage Across Flow, 0.126 in (3.20 mm)	0.011 to 0.013 in/in	1.1 to 1.3 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Break)	15000 psi	103 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus ³ (1.97 in (50.0 mm) Span)	1.00E+6 psi	6890 MPa	ASTM D790
Flexural Strength ³ Break, 1.97 in (50.0 mm) Span	15000 psi	103 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73 °F (23 °C))	1.00 ft-lb/in	53.4 J/m	ASTM D256
Unnotched Izod Impact (73 °F (23 °C))	8.00 ft-lb/in	427 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.252 in (6.40 mm)	430 °F	221 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm)	390 °F	199 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Arc Resistance (PLC) (Tungsten Electrode)	PLC 5	PLC 5	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating - UL (0.0590 in (1.50 mm))	HB	HB	UL 94

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UL 746	Nominal Value (English)	Nominal Value (SI)	Test Method
RTI Str	167 °F	75.0 °C	UL 746
RTI Imp	167 °F	75.0 °C	UL 746
RTI Elec	167 °F	75.0 °C	UL 746
Comparative Tracking Index (CTI) (PLC)	PLC 2	PLC 2	UL 746
High Voltage Arc Tracking Rate (HVTR) (PLC)			UL 746
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Hot-wire Ignition (HWI) (PLC)	PLC 2	PLC 2	UL 746
High Amp Arc Ignition (HAI) (PLC)	PLC 1	PLC 1	UL 746

Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity			ASTM D3835
511 °F (266 °C), 1000 sec [^] -1	438 Pa·s	438 Pa·s	

Processing Information		
Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Drying Time, Maximum	12 hr	12 hr
Suggested Max Moisture	0.040 %	0.040 %
Suggested Shot Size	50 to 80 %	50 to 80 %
Rear Temperature	470 to 490 °F	243 to 254 °C
Middle Temperature	470 to 490 °F	243 to 254 °C
Front Temperature	480 to 500 °F	249 to 260 °C
Nozzle Temperature	500 to 520 °F	260 to 271 °C
Processing (Melt) Temp	500 to 530 °F	260 to 277 °C
Mold Temperature	150 to 200 °F	65.6 to 93.3 °C
Back Pressure	40.0 to 100.0 psi	0.276 to 0.689 MPa
Screw Speed	40 to 80 rpm	40 to 80 rpm
Vent Depth	0.0010 to 0.0015 in	0.025 to 0.038 mm

Notes

- ¹ Typical properties: these are not to be construed as specifications.

² Type I, 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)