



Americas: COMMERCIAL

PPE+PS blend. 30% Glass reinforced. NSF 61 listing in several colors (restrictions apply). FDA compliance (restrictions apply). Low water absorption. Hydrolytic stability. Dimensional stability. Suitable for fluid engineering applications including pump housings, pump impellers and water meter components.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, brk, Type I, 0.2 in/min	16800	psi	ASTM D 638
Tensile Strain, brk, Type I, 0.2 in/min	2	%	ASTM D 638
Tensile Modulus, 0.2 in/min	1327000	psi	ASTM D 638
Flexural Stress, yld, 0.05 in/min, 2 in span	26100	psi	ASTM D 790
Flexural Stress, yld, 0.10 in/min, 4 in span	23400	psi	ASTM D 790
Flexural Modulus, 0.05 in/min, 2 in span	1160000	psi	ASTM D 790
Flexural Modulus, 0.10 in/min, 4 in span	1039000	psi	ASTM D 790
Hardness, Rockwell L	108	- -	ASTM D 785
Tensile Stress, break	117	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	8740	MPa	ISO 527
Flexural Stress	183	MPa	ISO 178
Flexural Modulus	8710	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 73°F	11	ft-lb/in	ASTM D 4812
Izod Impact, notched, 73°F	2.2	ft-lb/in	ASTM D 256
Izod Impact, notched, -22°F	2.3	ft-lb/in	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	35	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	11	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	12	kJ/m²	ISO 179/2C

Source, GMD, Last Update:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAMBER: THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BY, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT http://www.sabic-ip.com.and ARE AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION OR RECOMBENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLED. IT ALT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed sufferment. Seller so possible use of any product, service or design is intended, or should be conviced, or should be conviced and product, service or design is intended, or should be conviced.

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 2300/50% relative humidity.
 All properties, expect the melt volume rate are measured on injection moulded samples.
 All samples are prepared according to ISO 294.

²⁾ Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.
5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

^{*} Noryl is a trademark of SABIC INNOVATIVE PLASTICS HOLDING BV

^{© 1997-2010} SABIC INNOVATIVE PLASTICS HOLDING BV.All rights reserved





Americas: COMMERCIAL

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
IMPACT			
Charpy Impact, notched, -30°C	11	kJ/m²	ISO 179/2C
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	39	kJ/m²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	47	kJ/m²	ISO 179/1eU
THERMAL			
HDT, 66 psi, 0.125 in, unannealed	287	°F	ASTM D 648
HDT, 264 psi, 0.125 in, unannealed	278	°F	ASTM D 648
HDT, 66 psi, 0.250 in, unannealed	317	°F	ASTM D 648
HDT, 264 psi, 0.250 in, unannealed	280	°F	ASTM D 648
CTE, flow, -40°F to 100°F	1.7E-05	1/°F	ASTM E 831
CTE, xflow, -40°F to 100°F	3.43E-05	1/°F	ASTM E 831
Vicat Softening Temp, Rate B/50	143	°C	ISO 306
Vicat Softening Temp, Rate B/120	147	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	143	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	137	°C	ISO 75/Af
Relative Temp Index, Elec	90	°C	UL 746B
Relative Temp Index, Mech w/impact	90	°C	UL 746B
Relative Temp Index, Mech w/o impact	90	°C	UL 746B
PHYSICAL			
Specific Gravity	1.29	-	ASTM D 792
Water Absorption, 24 hours @ 73°F	0.06	%	ASTM D 570
Mold Shrinkage, flow, 0.125" (5)	0.1 - 0.4	%	SABIC Method
Melt Flow Rate, 300°C/5.0 kgf	8.6	g/10 min	ASTM D 1238
Melt Volume Rate, MVR at 300°C/5.0 kg	7	cm ³ /10 min	ISO 1133
ELECTRICAL			
Dielectric Strength, in oil, 125 mils	550	V/mil	ASTM D 149
Relative Permittivity, 50/60 Hz	2.93	-	ASTM D 150

Source, GMD, Last Update:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BY, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT http://www.sabic-ip.com.and Are avail.able upon request. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed Seller on service or design in a manner that infinges any patent or other intellectual property right.

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 Ill properties, expect the melt volume rate are measured on injection moulded samples.
 All samples are prepared according to ISO 294.

Only typical data for material selection purpose.Not to be used for part or tool design.
 This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
 Own measurement according to UL.
 Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

^{*} NorvL is a trademark of SABIC Innovative Plastics IP BV





Americas: COMMERCIAL

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
ELECTRICAL			
Dissipation Factor, 50/60 Hz	0.0009	-	ASTM D 150
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D 495
Hot Wire Ignition (PLC)	4	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	4	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	0.058	in	UL 94
Oxygen Index (LOI)	26	%	ASTM D 2863

Source, GMD, Last Update:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BY, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT http://www.sabic-ip.com.and Are avail.able upon request. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAINT, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed Seller on service or design in a manner that infinges any patent or other intellectual property right.

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 Ill properties, expect the melt volume rate are measured on injection moulded samples.
 All samples are prepared according to ISO 294.

Only typical data for material selection purpose.Not to be used for part or tool design.
 This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
 Own measurement according to UL.
 Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

^{*} Noryl is a trademark of SABIC Innovative Plastics IP BV





Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	UNIT	
Injection Molding			
Drying Temperature	230 - 250	°F	
Drying Time	3 - 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	570 - 620	°F	
Nozzle Temperature	570 - 620	°F	
Front - Zone 3 Temperature	550 - 620	°F	
Middle - Zone 2 Temperature	530 - 610	°F	
Rear - Zone 1 Temperature	510 - 600	°F	
Mold Temperature	180 - 230	°F	
Back Pressure	50 - 100	psi	
Screw Speed	20 - 100	rpm	
Shot to Cylinder Size	30 - 70	%	

Source, GMD, Last Update:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BY, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT http://www.sabic-ip.com.and Are avail.able upon request. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAINT, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed Seller on service or design in a manner that infinges any patent or other intellectual property right.

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 Ill properties, expect the melt volume rate are measured on injection moulded samples.
 All samples are prepared according to ISO 294.

Only typical data for material selection purpose.Not to be used for part or tool design.
 This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
 Own measurement according to UL.
 Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

^{*} Noryl is a trademark of SABIC Innovative Plastics IP BV