



ABS_performance	Value	Unit	Standard
Density	1.04	g/cm <sup>3</sup>	ISO 1183
Tensile Strenght	2.6	%	ISO 527
Tensile Modulus	2300	MPa	ISO 527
Flexural Strenght	65	%	ISO 178
IZOD Impact Strenght Notched 23°	29	KJ/m <sup>2</sup>	ISO 180/A
Water Absorption	1	%	ISO 62
MFR	19	g/10 min	ISO 62
Vicat Softening Temperature	90	°C	ISO 306

PETG	Value	Unit	Standard
Density	1.27	g/cm <sup>3</sup>	ISO 1183
Water Absorption	0.13	%	ISO 62
Tensile Strenght at Brack	26	MPa	ISO 527
Charpy Impact at 23°C	7.9	KJ/m <sup>2</sup>	ISO 178
Hardness	105	sh/R	ASTM D785
Melting Point	240	°C	ISO 11357
Heat Distortion Temperature	70	°C	ISO 75
Vicat Softening Temperature	78	°C	ISO 306

## DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



P-LENE polypropylene	Value	Unit	Standard
Density	0.9	g/cm <sup>3</sup>	ISO 1183
HDT	62	°C	ISO 75B-1
Vicat Softening Temp.	107	°C	ISO 306

Tenax PC-ABS	Value	Unit	Standard
Density	1.1	g/cm <sup>3</sup>	ISO 1183
Water Absorption	0.9	%	ISO 62
Tensile Modulus	2000	MPa	ISO 527
Vicat Point	108°	°C	ISO 306
Heat Deflection	93°	°C	ISO11357
Charpy notched Impact at 23°C	50	KJ/m <sup>2</sup>	ISO 179
Charpy notched Impact at -30°C	50	KJ/m <sup>2</sup>	ISO 179
Tensile Stress	43	MPa	ISO 527-2
Tensile Strain (Break)	80	%	ISO 527-2

DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



P51 - polycarbonate	Value	Unit	Standard
Density	1.2	g/cm <sup>3</sup>	ISO 1183
Water Absorption	0.15	%	ISO 62
Tensile Modulus	2340	MPa	ISO 527
Tensile Stress at Breack	71	MPa	ISO 527
Charpy notched Impact at 23°C	no break	KJ/m <sup>2</sup>	ISO 179
Charpy notched Impact at -30°C	no break	KJ/m <sup>2</sup>	ISO 179
Hardness	72	shore M	ASTM D785
Melting Point	220	°C	ISO 11357
Vicat Softening Temperature	96	°C	ISO 306

Longachain PA	Value	Unit	Standard
Density	1	g/cm <sup>3</sup>	ISO 1183
Hardness	75	sh/D	ISO 868
Tensile Modulus	1440	MPa	ISO 527
Charpy notched Impact at 23°C	no break	KJ/m <sup>2</sup>	ISO 179
Charpy notched Impact at -30°C	no break	KJ/m <sup>2</sup>	ISO 179
Yield Stress	43	MPa	ISO 527/2
Melting Point	180°	°C	ISO 11357

## DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



HIRMA PMMA	Value	Unit	Standard
Density	1.17	g/cm <sup>3</sup>	ASTM D792
Water Absorption	0.4	%	ASTM D570
Flexural Modulus	2.3	GPa	ASTM D790
IZOD Deflection	3.2	J/cm	ASTM D256
Heat Deflection	77	°C	ASTM D648
Tensile Strength at Break	51	MPa	ASTM D638

Stiron HIPS	Value	Unit	Standard
Density	1.04	g/cm <sup>3</sup>	ISO 1183
Water Absorption	0.1	%	ISO 62
Tensile Modulus	1800	MPa	ISO 527
Tensile Strain (Yield)	1.5	&	ISO 527
Charpy Impact at 23°	12	KJ/m <sup>2</sup>	ISO 179
MFR	4	g/10 min	ISO 72
Melting Point	240	°C	ISO 11357
Vicat Softening Temperature	96	°C	ISO306

## DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



Carbonium-Nylon CFP A	Value	Unit	Standard
Density	1.07	g/cm <sup>3</sup>	ISO 1183
Water Absorption	1.1	%	ISO 62
Tensile Modulus	8000	MPa	ISO 178
Melting Point DSC	178°	°C	ISO 3146
Flexural Modulus	6800	MPa	ISO 178
Volume Resistivity	1,00 e+11	ohm/cm	IEC 600093
Stress at Break	110	MPa	ISO 527-2

UV729 ASA	Value	Unit	Standard
Density	1.08	g/cm <sup>3</sup>	ASTM D792
Tensile Strength at Yield	410	Kg/cm <sup>2</sup>	ASTM D638
Flexur Modulus	19,500	Kg/cm <sup>2</sup>	ASTM D790
IZOD Impact Strength at 23°C	45	Kg*cm/cm	ASTM D256
IZOD Impact Strength at -30°C	6	kg*cm/cm	ASTM D256
Heat Deflection	96	°C	ASTM D648
Vicat Softening Temperature	94	°C	ASTM D1525

#### DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



Flex Mark 7	Value	Unit	Standard
Density	1.2	g/cm <sup>3</sup>	ISO 1183
Hardness	70	sh/A	ISO 868
Elongation at Break	750	%	ISO 37
Tensile Strain	40	MPa	ISO 37
Compression set at 70°	35	%	ISO 815
Charpy Impact at 23°	no break	KJ/m <sup>2</sup>	ISO 179
Charpy Impact at -30°	no break	KJ/m <sup>2</sup>	ISO 179
Abrasion Loss	42	mm <sup>3</sup>	ISO 4649

Flex Mark 8	Value	Unit	Standard
Density	1.22	g/cm <sup>3</sup>	ISO 1183
Hardness	93	sh/A	ISO 868
Elongation at Break	600	%	ISO 37
Tensile Strain	55	MPa	ISO 37
Compression set at 70°	45	%	ISO 815
Charpy Impact at 23°	no break	KJ/m <sup>2</sup>	ISO 179
Charpy Impact at -30°	no break	KJ/m <sup>2</sup>	ISO 179
Abrasion Loss	30	mm <sup>3</sup>	ISO 4649

## DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.



Flex Mark 8	Value	Unit	Standard
Density	1.24	g/cm <sup>3</sup>	ISO 1183
Hardness	93	sh/A	ISO 868
Elongation at Break	600	%	ISO 37
Tensile Strain	55	MPa	ISO 37
Compression set at 70°	45	%	ISO 815
Charpy Impact at 23°	no break	KJ/m <sup>2</sup>	ISO 179
Charpy Impact at -30°	no break	KJ/m <sup>2</sup>	ISO 179
Abrasion Loss	30	mm <sup>3</sup>	ISO 4649

DISCLAIMER

The Information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Caracol S.R.L. makes no warranty expressed or implied, with respect to completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.

User should satisfy himself that he has all current data relevant to his particular use.