INJECTOBLEND™ FABS007

General Purpose ABS

FABS007 is available in black color only. Further information and details are available upon request

Properties	Test Method	English (U.S.	Units System)	Metric (S.I.	Units System)
PHYSICAL	Witting	(0.5.	bystem)	(0.1.	bystem)
Specific Gravity, solid	D 792	-	1.05	-	1.05
Mold Shrinkage, 0.125" (3.2mm)	D 955	%	0.4-0.7	%	0.4-0.7
Water Absorption. 73F (23C), 24 hrs	D 570	%	-	%	-
Melt Flow Rate @ 230C / 3.8kg, nominal	D 1238	g/10min	5	g/10min	5
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C)	D 638	psi	6,000	MPa	41
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	20	%	20
Flexural Strength. 73 ^o F (23 ^o C)	D 790	psi	9,000	MPa	62
Flexural Modulus. 73°F (23°C)	D 790	psi	330,000	MPa	2,277
Shear Modulus. 73°F (23°C)	D 4065	moi.		MDo	
Shear Modulus. 73 F (23 C)	D 4065	psi	-	MPa	-
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D256	ft-lb/in	2.5	J/m	134
Izod Impact, notched22°F (-30°C), 0.125" (3.2mm)	D256	ft-lb/in	1.2	J/m	64
Izod Impact, notched. 73°F (23°C), 4 mm	ISO 180	-	-	kJ/m²	_
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Instrumented Impact Total Energy. 73°F (23°C), 0.125" (3.2mm)	D 3763	ft-lb	-	J	-
THERMAL					
Deflection Temperature, unannealed	D (40	$^0\!{ m F}$	176	⁰ C	00
264 psi (1.82 MPa), Load	D 648	⁰ F	176 190	°C	80 88
66 psi (0.45 MPa), Load		Г	190		00
CLTE40 °C - +80 °C (-40 °F - +176 °F)	D 696	in/in/°F	5.3 E-5	m/m/°C	9.5 E-5
			2.5 — 2		
FLAMMABILITY					
FLAMMADILITI					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	НВ	-	НВ
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INJECTOBLEND™ FABSPC003

ABS/PC Blend

FABSPC003 is available with internal and external lubricants, UV stabilized and other modifications. Further information and details are available upon request

Properties	Test Method	English (U.S.	Units System)	Metric (S.I.	Units System)
PHYSICAL		· ·			,
Specific Gravity, solid Mold Shrinkage, 0.125" (3.2mm) Water Absorption. 73F (23C), 24 hrs	D 792 D 955 D 570	- % %	1.13 0.5-0.8 0.10	- % %	1.13 0.5-0.8 0.10
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C) Tensile Elongation @ Break. 73°F (23°C)	D 638 D 638	psi %	7,200 75	MPa %	50 75
Flexural Strength. 73 ^o F (23 ^o C) Flexural Modulus. 73 ^o F (23 ^o C)	D 790 D 790	psi psi	11,000 275,000	MPa MPa	76 1,898
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm) Izod Impact, notched22°F (-30°C), 0.125" (3.2mm) Izod Impact, notched. 73°F (23°C), 4 mm	D256 D256 ISO 180	ft-lb/in ft-lb/in -	11.0 8.0 -	J/m J/m kJ/m²	587 427 46
Instrumented Impact Total Energy. 73°F (23°C), 0.125" (3.2mm) Instrumented Impact Total Energy22°F (-30°C), 0.125" (3.2mm),	D 3763 D 3763	ft-lb ft-lb	40 44	1	54 60
THERMAL					
Deflection Temperature, unannealed 264 psi (1.82 MPa), Load 66 psi (0.45 MPa), Load	D 648	°F °F	234 259	°C	112 126
CLTE. $-40 {}^{0}\text{C} - +80 {}^{0}\text{C} (-40 {}^{0}\text{F} - +176 {}^{0}\text{F})$	D 696	in/in/°F	4.0 E-5	m/m/°C	7.2 E-5
Vicat Softening Temperature, 50N	ISO 306	⁰ F	268	°C	131
FLAMMABILITY					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	НВ	-	НВ

INJECTOBLEND™ FPA66233

Nylon 6'6, 33% Glass Fiber Reinforced, Heat Stabilized

Properties reported DAM. Further information is available upon request

Properties Reported DAM. Properties @ 50% RH are available upon request	Test Method	English (U.S.	Units System)	Metric (S.I.	Units System)
PHYSICAL					
Specific Gravity, solid	D 792	-	1.40	-	1.40
Mold Shrinkage, flow, 0.125" (3.2mm)	D 955	%	0.3	%	0.3
Mold Shrinkage, cross-flow, 0.125" (3.2mm)	D 955	%	1.1	%	1.1
Water Absorption. 73F (23C), 24 hrs	D 570	%	0.6	%	0.6
Water Absorption, saturation, 73F (23C)	D 570	%	5.4	%	5.4
Fiberglass Content	D 2584	%	33	%	33
MECHANICAL					
Tensile Modulus. 73°F (23°C)	ISO 527-1/2	-	-	MPa	10,000
Tensile Strength @ Break. 73°F (23°C)	D 638	Psi	25,000	MPa	173
	ISO 527-1/2	-	-	MPa	170
Tensile Elongation @ Break. 73 ^o F (23 ^o C)	D 638	%	2	%	2
Flexural Strength. 73 ^o F (23 ^o C)	ISO 178	-	-	MPa	255
Flexural Modulus. 73 ^o F (23 ^o C)	ISO 178	-	-	MPa	8,500
Izod Impact Strength, notched. 73°F (23°C), 0.125"	D256	ft-lb/in	2.0	J/m	107
(3.2mm)	ISO 180 1/A	-	-	kJ/m²	10
Izod Impact, Strength, notched. 23°C, 4 mm	ISO 180 1/A	-	-	kJ/m²	7
Izod Impact Strength, notched30°C, 4 mm	ISO 179/1eU	-	-	kJ/m²	70
Charpy Impact Strength. 23°C, 4 mm					
THERMAL					
Deflection Temperature, unannealed	D 648				
264 psi (1.82 MPa), Load		$^{0}\mathrm{F}$	473	0 C	245
66 psi (0.45 MPa), Load		$^{0}\mathrm{F}$	482	^{0}C	250
1.82 MPa Load, flatwise	ISO 75-1/2	-	-	⁰ C	248
CLTE. $-40^{0}\text{C} - +35^{0}\text{C} (-40^{0}\text{F} - +95^{0}\text{F})$	D 696	in/in/°F	1.38 E-5	m/m/°C	2.50 E-5
Melting Point	ISO 3146	$^{0}\mathrm{F}$	502	⁰ C	261
FLAMMABILITY					
UL 94 Flame Class. 0.058" (1.47mm) 2.00mm +/- 0.2 mm	UL 94 ISO 3795	-	НВ	- mm/min	HB <100
2.00mm +/- 0.2 mm	150 5/75	_	_	111111/111111	100

INJECTOBLEND™ FPC120

Impact Modified Grade Polycarbonate

FPC120 is available with internal and external lubricants, UV stabilized and other modifications. Further information and details are available upon request

Properties	Test	English	Units	Metric	Units
PANAGAGAA	Method	(U.S.	System)	(S.I.	System)
PHYSICAL					
Specific Gravity, solid	D 792	-	1.19	-	1.19
Mold Shrinkage, 0.125" (3.2mm)	D 955	%	0.5-0.8	%	0.5-0.8
Water Absorption. 73F (23C), 24 hrs	D 570	%	0.15	%	0.15
Melt Flow Rate @ 300C / 1.2kg, nominal	D 1238	g/10min	20	g/10min	20
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C)	D 638	psi	8,400	MPa	58
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	50	%	50
Flexural Strength. 73°F (23°C)	D 790	psi	12,500	MPa	86
Flexural Modulus. 73°F (23°C)	D 790	psi	330,000	MPa	2,277
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Shear Modulus. 73 ^o F (23 ^o C)	D 4065	psi	125,500	MPa	866
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D256	ft-lb/in	13.0	J/m	694
Izod Impact, notched22°F (-30°C), 0.125" (3.2mm)	D256	ft-lb/in	7.0	J/m	374
Izod Impact, notched. 73°F (23°C), 4 mm	ISO 180	-	-	kJ/m²	52
Charpy Impact, notched. 73°F (23°C), 4 mm	ISO 179	-	-	kJ/m²	30
Instrumented Impact Total Energy. 73°F (23°C), 0.125" (3.2mm)	D 3763	ft-lb	42	J	57
Instrumented Impact Total Energy22°F (-30°C), 0.125"					
(3.2mm),	D 3763	ft-lb	46	J	63
THERMAL					
	D (10				
Deflection Temperature, unannealed	D 648	$^0\mathbf{F}$	250	0.0	106
264 psi (1.82 MPa), Load		°F °F	259	°C °C	126
66 psi (0.45 MPa), Load		TF	275	-C	135
CLTE. $-40^{0}\text{C} - +80^{0}\text{C} (-40^{0}\text{F} - +176^{0}\text{F})$	D 696	in/in/°F	4.31 E-5	m/m/°C	7.76 E-5
Vicat Softening Temperature, 50N	ISO 306	⁰ F	288	$^{0}\mathrm{C}$	142
	150 300	1	200		172
FLAMMABILITY					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	НВ	-	НВ
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INJECTOBLEND™ FPOM110

Medium Viscosity Acetal Copolymer

FPOM110 is available in black color, UV stabilized and with other modifications. Further information and details are available upon request

Properties	Test	English	Units	Metric	Units
DAMAGE OF T	Method	(U.S.	System)	(S.I.	System)
PHYSICAL					
Specific Gravity, solid	D 792		1.41		1.41
Mold Shrinkage, 0.125" (3.2mm)	D 792 D 955	- %	1.41 $1.8 - 2.2$	- %	1.41 $1.8 - 2.2$
Water Absorption. 73F (23C), 24 hrs	D 933 D 570	% %	0.3	% %	0.3
Water Absorption. 73F (23C), 24 ins Water Absorption. Saturation 73F (23C)	D 570 D 570	% %	0.9	%	0.5
Melt Flow Rate	D 370 D 1238	g/10min	10	g/10min	10
Melt Flow Rate	D 1236	g/ I O I I I I I	10	g/10IIIII	10
MECHANICAL					
Tanaila Channath @ Viald 720E (220C)	D (20	:	0.000	MD.	62
Tensile Strength @ Yield. 73°F (23°C) Tensile Elongation @ Break. 73°F (23°C)	D 638	psi	9,000	MPa	62
Tensile Elongation @ Break. 73 F (23 C)	D 638	%	20	%	20
Flexural Strength. 73°F (23°C)	D 790	psi	13,500	MPa	93
Flexural Modulus. 73°F (23°C)	D 790 D 790	psi	390,000	MPa	2,691
1 Textital Modulus. 73 1 (23 C)	D 790	psi	390,000	IVII a	2,091
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D256	ft-lb/in	1.1	J/m	59
Izod Impact, notched. 73 F (23 °C), 4 mm	ISO 180	-	-	kJ/m²	5.0
120d Impact, Notched. 73 1 (23 C), 1 Imi	150 100			K3/111	3.0
THERMAL					
Deflection Temperature, unannealed	D 648				
264 psi (1.82 MPa), Load	D 046	$^0\mathrm{F}$	221	0 C	105
66 psi (0.45 MPa), Load		⁰ F	320	°C	160
00 psi (0.45 Mi a), Load		1	320	C	100
Melting Point	D 3418	${}^0\!\mathrm{F}$	325	$^{0}\mathrm{C}$	163
		_			
CLTE. -40° C to $+35^{\circ}$ C (-40° F to $+95^{\circ}$ F)	D 696	in/in/ ⁰ F	-	in/in/ ⁰ C	-
FLAMMABILITY					
TH. 0.4 FL	*** **		***		***
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	HB	-	HB

INJECTOBLEND™ FPP135

Polypropylene Copolymer

FPP135 is available in a variety of viscosities and other modifications. Further information and details are available upon request

Properties	Test Method	English (U.S.	Units System)	Metric (S.I.	Units System)
PHYSICAL		`			
Specific Gravity, solid Mold Shrinkage, 0.125" (3.2mm)	D 792 D 955	- %	0.91 1.3 - 2.0	- %	0.91 1.3 - 2.0
MECHANICAL					
Tensile Strength @ Yield. 73°F (23°C) Tensile Elongation @ Yield. 73°F (23°C)	D 638 D 638	psi %	3,900 6	MPa %	27 6
Flexural Strength. 73 ^o F (23 ^o C) Flexural Modulus. 73 ^o F (23 ^o C)	D 790 D 790	psi psi	4,000 145,000	MPa MPa	28 1,000
Izod Impact, notched. 73°F (23°C), 0.125" (3.2mm)	D256	ft-lb/in	2.0	J/m	107
Dart Impact22°F (-30°C), 0.125" (3.2mm)	GM9300P	ft-lb	4.5	J	6.1
THERMAL					
Deflection Temperature, unannealed 264 psi (1.82 MPa), Load 66 psi (0.45 MPa), Load	D 648	°F °F	126 185	°C °C	52 85
CLTE. 20 °C - +75 °C (68 °F - +167 °F)	D 696	in/in/°F	5.5 E-5	m/m/°C	9.9 E-5
Thermal Oxidative Stability. 150°C	D 3012	hours	350	hours	350
FLAMMABILITY					
UL 94 Flame Class. 0.058" (1.47mm) GM	UL 94 ISO 3795	- mm/min	HB < 100	- mm/min	HB < 100

INJECTOBLEND™ FPP330

Polypropylene Homopolymer, 30% Glass Fiber Reinforced, Heat Stabilized

Properties / Reported DAM	Test	English	Units	Metric	Units
	Method	(U.S.	System)	(S.I.	System)
PHYSICAL					
	D 702		1.10		1.12
Specific Gravity, solid	D 792	-	1.13	-	1.13
Mold Shrinkage, 0.125" (3.2mm)	D 955	%	0.2 - 1.0	%	0.2 - 1.0
Fiberglass Content	D 2584	%	30	%	30
MECHANICAL					
Tensile Strength @ Break. 73°F (23°C)	D 638	psi	11,000	MPa	76
Tensile Elongation @ Break. 73°F (23°C)	D 638	%	3	%	3
Tensile Modulus. 73°F (23°C)	D 638	psi	980,000	MPa	5,800
10115110 117044145. 75 1 (25 0)	2 030	PSI	200,000	1711 4	2,000
Flexural Strength. 73°F (23°C)	D 790	psi	16	MPa	110
Flexural Modulus. 73°F (23°C)	D 790	psi	740,000	MPa	5,100
1 10Adital Miodalas. 73 1 (23 C)	D 750	PSI	7 10,000	IVII u	3,100
Izod Impact Strength, notched. 73°F (23°C), 0.125" (3.2mm)	D 256	ft-lb/in	1.1	J/m	60
Izod Impact Strength, notched. 73°F (23°C), 4 mm	ISO 180	-	_	kJ/m²	6.8
Izod Impact Strength, notched22°F (-30°C), 4 mm	ISO 180	_	_	kJ/m²	4.5
1250 Impact Strength, notelied. 22 T (50 C), Thin	150 100			K3/111	4.5
Charpy Impact Strength, notched. 73°F (23°C), 4 mm	ISO 179	_	_	kJ/m²	8.0
Charpy Impact Strength, notched22°F (-30°C), 4 mm	ISO 179	_	_	kJ/m²	5.0
Charpy impact strength, notelied: 22 1 (30 c), 1 min	150 177			K3/111	3.0
THERMAL					
	D 640				
Deflection Temperature, unannealed	D 648	0	207	0.4	4.4-
264 psi (1.82 MPa), Load		⁰ F ⁰ F	295	°C °C	146
66 psi (0.45 MPa), Load		°F	312	°C	155
CLTE30 °C - +150 °C (-22 °F - +302 °F) Flow	D (0)	· / /OF	4.45.5	/ /0.0	7.0
CLTE30 °C - +150 °C (-22 °F - +302 °F) Flow CLTE30 °C - +150 °C (-22 °F - +302 °F) Cross Flow	D 696	in/in/°F	4.4 E-5	m/m/°C	7.9
CLTE30 °C - +150 °C (-22 °F - +302 °F) Cross Flow	D 696	in/in/°F	4.0 E-5	m/m/°C	7.2
FLAMMABILITY					
UL 94 Flame Class. 0.058" (1.47mm)	UL 94	-	HB	-	HB
	ISO 3795	-	-	mm/min	< 100