



METALLOCENE α -OLEFIN COPOLYMER

FILM GRADE



SP0510

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP0510
Melt Flow Rate	g/10min	1133	190°C	1.2
Density	kg/m ³	1183	-	904
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	18
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	110
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	49
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	85
Melting Point	°C	11357-3	-	98

* The figures shown above are representative but not specification values.



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FILM GRADE

SP0540

- ◆ EXCELLENT HEAT SEAL PROPERTIES
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT OPTICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP0540
Melt Flow Rate	g/10min	1133	190°C	3.8
Density	kg/m ³	1183	-	903
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	>16
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	120
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	49
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	83
Melting Point	°C	11357-3	-	98

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FILM GRADE



SP1510

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP1510
Melt Flow Rate	g/10min	1133	190°C	1.0
Density	kg/m ³	1183	-	915
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	18
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	160
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	98
Melting Point	°C	11357-3	-	116

* The figures shown above are representative but not specification values.



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FILM GRADE



SP1520

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP1520
Melt Flow Rate	g/10min	1133	190°C	2.0
Density	kg/m ³	1183	-	913
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	16
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	160
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	96
Melting Point	°C	11357-3	-	116

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FILM GRADE

SP1540

- ◆ EXCELLENT OPTICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES
- ◆ EXCELLENT MECHANICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP1540
Melt Flow Rate	g/10min	1133	190°C	3.8
Density	kg/m ³	1183	-	913
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	>18
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	190
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	96
Melting Point	°C	11357-3	-	113

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METALLOCENE α -OLEFIN COPOLYMER

FILM GRADE



SP2020

- ◆ EXCELLENT PROCESSABILITY
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2020
Melt Flow Rate	g/10min	1133	190°C	2.3
Density	kg/m ³	1183	-	916
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	17
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	220
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	93
Melting Point	°C	11357-3	-	116

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CROSS-LINKED CABLE GRADE

SP2030

- ◆ HIGH CROSSLINKING DEGREE
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT RESISTANCE

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2030
Melt Flow Rate	g/10min	1133	190°C	2.3
Density	kg/m ³	1183	-	922
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	>20
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	260
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	55
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	106
Melting Point	°C	11357-3	-	122

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FILM GRADE

SP2040

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES
- ◆ EXCELLENT OPTICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2040
Melt Flow Rate	g/10min	1133	190°C	3.8
Density	kg/m ³	1183	-	918
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	>19
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	220
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	55
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	101
Melting Point	°C	11357-3	-	116

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FILM GRADE

SP2320

- ◆ EXCELLENT PROCESSABILITY
- ◆ EXCELLENT OPTICAL PROPERTIES
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2320
Melt Flow Rate	g/10min	1133	190°C	1.9
Density	kg/m ³	1183	-	920
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	19
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	240
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	55
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	101
Melting Point	°C	11357-3	-	118

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METALLOCENE α -OLEFIN COPOLYMER



FILM GRADE

SP2510

- ◆ EXCELLENT PROCESSABILITY
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT ANTI-BLOCKING PROPERTIES
- ◆ EXCELLENT HEAT SEAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2510
Melt Flow Rate	g/10min	1133	190°C	1.5
Density	kg/m ³	1183	-	923
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	20
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	260
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	56
Environmental Stress Crack Resistance	hrs	D1693 (ASTM)	-	>1000
Vicat Softening Point	°C	306	-	103
Melting Point	°C	11357-3	-	121

* The figures shown above are representative but not specification values.



METALLOCENE α -OLEFIN COPOLYMER



FILM GRADE

SP2520

- ◆ EXCELLENT PROCESSABILITY
- ◆ EXCELLENT HEAT RESISTANCE
- ◆ EXCELLENT STIFFNESS
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT ANTI-BLOCKING PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2520
Melt Flow Rate	g/10min	1133	190°C	1.9
Density	kg/m ³	1183	-	925
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	20
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	320
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	56
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	105
Melting Point	°C	11357-3	-	122

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TUBE GRADE

SP2530S

- ◆ EXCELLENT HEAT SEAL PROPERTIES
- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT STRESS CRACK RESISTANCE

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2530S
Melt Flow Rate	g/10min	1133	190°C	1.9
Density	kg/m ³	1183	-	920
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	19
Tensile Strain @ Break	%	527-1,2	-	350
Stiffness (Flexus Modulus)	Mpa	178	-	240
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	105
Melting Point	°C	11357-3	-	122

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METALLOCENE α -OLEFIN COPOLYMER

FILM GRADE



SP2540

- ◆ EXCELLENT PROCESSABILITY
- ◆ EXCELLENT HEAT SEAL PROPERTIES
- ◆ EXCELLENT STIFFNESS
- ◆ EXCELLENT MECHANICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP2540
Melt Flow Rate	g/10min	1133	190°C	3.8
Density	kg/m ³	1183	-	924
Tensile Stress @ Yield	Mpa	527-1,2	-	10
Tensile Strength @ Break	Mpa	527-1,2	-	>20
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	270
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	56
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	106
Melting Point	°C	11357-3	-	120

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METALLOCENE α -OLEFIN COPOLYMER



FILM GRADE

SP3010

- ◆ EXCELLENT ANTI-BLOCKING PROPERTIES
- ◆ EXCELLENT STIFFNESS
- ◆ EXCELLENT HEAT RESISTANCE
- ◆ EXCELLENT MECHANICAL PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP3010
Melt Flow Rate	g/10min	1133	190°C	0.8
Density	kg/m ³	1183	-	926
Tensile Stress @ Yield	Mpa	527-1,2	-	13
Tensile Strength @ Break	Mpa	527-1,2	-	>25
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	490
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	54
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	106
Melting Point	°C	11357-3	-	124

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METALLOCENE α -OLEFIN COPOLYMER

ROTO MOLDING GRADE



PRIME POLYMER

SP4030

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT RIGIDITY AND TOUGHNESS
- ◆ EXCELLENT HEAT RESISTANCE
- ◆ EXCELLENT STRESS CRACKING RESISTANCE (ROTATION MOLDING)
- ◆ SUPERIOR OIL RESISTANCE (ROTATION MOLDING)

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP4030
Melt Flow Rate	g/10min	1133	190°C	3.8
Density	kg/m ³	1183	-	938
Tensile Stress @ Yield	Mpa	527-1,2	-	15
Tensile Strength @ Break	Mpa	527-1,2	-	>21
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	550
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	58
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	114
Melting Point	°C	11357-3	-	127

* The figures shown above are representative but not specification values.



METALLOCENE α -OLEFIN COPOLYMER



FILM GRADE

SP4530

- ◆ EXCELLENT MECHANICAL PROPERTIES
- ◆ EXCELLENT RIGIDITY AND TOUGHNESS
- ◆ EXCELLENT HEAT RESISTANCE

PHYSICAL PROPERTIES

PROPERTIES	UNIT	TEST METHOD (ISO)	TEST CONDITION	SP4530
Melt Flow Rate	g/10min	1133	190°C	2.8
Density	kg/m ³	1183	-	946
Tensile Stress @ Yield	Mpa	527-1,2	-	-
Tensile Strength @ Break	Mpa	527-1,2	-	>17
Tensile Strain @ Break	%	527-1,2	-	>500
Stiffness (Flexus Modulus)	Mpa	178	-	720
Charpy Impact Strength	kJ/m ²	179-1	-	NB
Hardness	-	868	Shore D	62
Environmental Stress Crack Resistance	hrs	D1693(ASTM)	-	>1000
Vicat Softening Point	°C	306	-	120
Melting Point	°C	11357-3	-	131

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