Precompound QFC-531P and QFB-431P for complex special-shaped parts

Product Description	
Composition	Middle and high Mooney FKM precompound (with curing agent)
Features	High elongation, good tear resistance
Typical uses	Complex shaped parts, products with high demolding rejects
Processing technology	Molding, overmolding, Preforming
Curing system	Bisphenol AF

Properties	Typical Value	
	QFC-531P	QFB-431P
Fluorine content, %	66	68
Density	1.81	1.85
Color	White	white
Solubility	Low molecular weight ketones and esters	
Mooney viscosity ML 1+10@121℃	50	40
TR10 ℃	-17	-13
Test Standard Recipes		
Precompound		100
Carbon Black（N990）	phr	30
Magnesium oxide	phr	3
Calcium hydroxide	phr	6
Typical Curing Properties		
Monsanto Moving Die Rheometer (MDR2000®)		
100cpm, 0.5°Arc, 10 minutes, 177℃		
ML, Min. Torque，dNm	2.01	1.65
ts2,	0'50"	0'55"
t’ 90,	2'26"	2'38"
MH, Max. Torque，dNm	22.89	21.10
Typical Physical Properties		
Press curing at 170°C for 10 minutes		
Over curing at 230°C for 24 hours		
Tensile Strength (ASTM D412)，Mpa	15.6	13.5
Elongation (ASTM D412)，%	300	320
Hardness (ASTM D2240)，Shore A	74	74
Volume change rate	3.1	2.1
Compression Rate, [ASTM D395 Method B (Disc)]		
70h @ 200℃，%	23	32

Rembrandtstr.31/2
73433 Aalen
Germany
Tel: +49(0)73614904840
Phone: +49(0)17623605157
info@euren-gmbh.de
www.euren-gmbh.de

Precompound QFC-331P and QFB-231P for complex special-shaped parts

Product Description	
Composition	Low Mooney FKM precompound (with curing agent)
Features	Good fluidity, high elongation, good tear resistance
Typical uses	Complex shaped parts, smaller products with high demolding rejects
Processing technology	Injectioin, extrusion, overmolding
Curing system	Bisphenol AF

Properties	Typical Value	
	QFC-331P	QFB-231P
Fluorine content, %	66	68
Density	1.81	1.85
Color	White	white
Solubility	Low molecular weight ketones and esters	
Mooney viscosity ML 1+10@121℃	30	25
TR10 ℃	-17	-13
Test Standard Recipes		
Precompound		100
Carbon Black（N990)	phr	30
Magnesium oxide	phr	3
Calcium hydroxide	phr	6
Typical Curing Properties		
Monsanto Moving Die Rheometer (MDR2000®)		
100cpm, 0.5°Arc, 10 minutes, 177℃		
ML, Min. Torque，dNm	1.11	1.01
ts2,	0'50"	0'55"
t’ 90,	2'56"	3'18"
MH, Max. Torque，dNm	11.23	10.10
Typical Physical Properties		
Press curing at 170℃ for 10 minutes		
Over curing at 230℃ for 24 hours		
Tensile Strength (ASTM D412)，Mpa	14.1	13
Elongation (ASTM D412)，%	260	280
Hardness (ASTM D2240)，Shore A	73	73
Volume change rate	3.1	2.1
Compression Rate, [ASTM D395 Method B (Disc)]		
70h @ 200℃，%	24	33

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Precompound QFC-261P for very small adhesive products

Product Description	
Composition	Very low Mooney fluororubber precompound (with curing agent)
Features	Excellent flow, tear resistance and adhesion
Typical uses	Very small oil seals and skeleton bonding products, coated calendered products
Processing technology	Injection, molding, transfer molding, extrusion molding, coating calendering
Curing system	Bisphenol AF

Properties	Typical Value
Fluorine content, %	66
Density	1.81
Color	White
Solubility	Low molecular weight ketones and esters
Mooney viscosity ML 1+10@121℃	25
TR10 ℃	-17
Test Standard Recipes	
Precompound	100
Carbon Black（N990）	30
Magnesium oxide	3
Calcium hydroxide	6
Typical Curing Properties	
Monsanto Moving Die Rheometer (MDR2000®)	
100cpm, 0.5°Arc, 10 minutes, 177℃	
ML, Min. Torque，dNm	0.61
ts2,	1'05"
t’ 90,	2.28"
MH, Max. Torque，dNm	12.10
Typical Physical Properties	
Press curing at 170°C for 10 minutes	
Over curing at 230°C for 24 hours	
Tensile Strength (ASTM D412)，Mpa	13.6
Elongation (ASTM D412)，%	230
Hardness (ASTM D2240)，Shore A	73
Volume change rate（Fuel C70h@23℃），%	3.1
Compression Rate, [ASTM D395 Method B (Disc)]	
70h @ 200℃，%	23

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Germany
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