

## Fluoron™ CURATIVE FC30 and FC20 for fluoroelastomer

### I. Description

#### FC30

Composition A masterbatch incorporates an crosslinking agent (such as bisphenol AF)  
 Form & Color Homogeneous white small pellets

#### FC20

Composition A masterbatch incorporates an accelerator (such as benzyltriphenylphosphonium chloride)  
 Form & Color Homogeneous white small pellets

### II. Compound Properties Based on FC30 and FC20

Recipe#	A	B	C	D	E	
FKM Copolymer, MV50	96.1	98.27	94.6	94	97.33	
FC30	2.6		3.6	4		
FC20	1.3		1.8	2		
Bisphenol AF		1.3			2	
BTPPC		0.43			0.67	
N990	30	30	30	30	30	
Calcium Hydroxide	6	6	6	6	6	
Magnesium Oxide (highly active)	3	3	3	3	3	
Carnauba Wax	1	1	1	1	1	
Total phr	140	140	140	140	140	
<b>MDR, 0.5arc°, 8 minutes @ 177°C</b>						
ML	dNm	1.78	1.8	1.68	1.67	1.71
MH	dNm	18.5	17.6	25.8	27.8	26.5
Ts2	min	0.94	1	1.05	1.12	1.13
T50	Min	1.21	1.35	1.38	1.48	1.55
T90	min	2.05	2.22	2.2	2.3	2.31

#### Compound Properties

##### Cure Condition 1

Press Cure 10min @ 177°C  
 Post Cure 24hrs @ 230°C

Tensile	MPa	14.5	13.4	14.8	15.2	14.7
Elongation	%	240	250	165	155	170
Hardness	Shore A	74	75	79	80	79
Compression Set, 70 hrs @ 200°C	%	22	24	21	21	22

##### Cure Condition 2

Press Cure 10min @ 177°C  
 Post Cure 24hrs @ 200°C

Tensile	MPa	12.5	11.5	12.4	12.5	11.7
Elongation	%	290	290	210	200	210
Hardness	Shore A	74	73	78	79	78
Compression Set, 70 hrs @ 200°C	%	29	32	28	28	29

### III. Test Procedures

Properties Measured	Test Procedure
MDR	ISO6502
Tensile Properties	ISO37, TS at 23°C
Hardness Shore A	ISO868, 1 second at 23°C
Compression Set	ISO815

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