

Specification	Rev.	Description	Current on date	Status	Approved by	
GM_ST706003	1	FM Tread All-season UHP USA	2019/06/12	CRRNT QR2	B Sathishkumar	GYO
			2019/06/12	CRRNT QR2	B Sathishkumar	GYO
Format No	FS-R&D-Final mix compound LIMS overview		Electronically generated copy. No signature required.			

Properties

MDR vulcanisation properties, 190°C

	UoM	Apollo test code
ML 190°C	dNm	TP013B
MH 190°C	dNm	TP013B
t90% 190°C	min	TP013B

Controlplan / General

Controlplan FM

	Sampling detail	Sampling interval	Interval type	Apollo test code
MDR vulcanisation properties 190°C, 0.5°	1	1	Batch	TP013B
RPA vulcanisation properties, 160°C	1	1	Week	TP013A
Durometer hardness shore A	1	1	Week	TP001AA
RPA payne effect	3 (first middle last)	1	Run	TP014A
Tear strength (delft) cured 20' at 160°C	1	1	Week	TP004AB
Density (water dipping method)	2 (first last)	1	Run	TP050A
Tensile testing 20' 160°C	1	1	Week	TP002AN
Ash content and color	1	1	Run	TC007C

Controlplan / Gyongyoshalas

Controlplan FM

	Sampling detail	Sampling interval	Interval type	Apollo test code
MDR vulcanisation properties 190°C, 0.5°	1	1	Batch	TP013B
RPA vulcanisation properties, 160°C	1	1	Week	TP013A
Durometer hardness shore A	1	1	Week	TP001AA
RPA payne effect	1	1	Run	TP014A
Tear strength (delft) cured 20' at 160°C	1	1	Week	TP004AB
Density (water dipping method)	3 (first middle last)	1	Run	TP050A
Tensile testing 20' 160°C	1	1	Week	TP002AN

Processing Gyongyoshalas / General

Extruded densities

	UoM	Value
Extruded density PEXT-01: Quadruplex	g/cm³	1.162
Extruded density PEXT-02: Quintoplex	g/cm³	1.162

work away methods

	Value
Work away compound	22% compensated rework in ST7018

Weight tolerances Mixing

	UoM	Value
Master batch	g	800
Individual chemicals (>100 gram)	g	10
Individual chemicals (<100 gram)	g	5
Chemical bag	g	150

Processing Gyongyoshalas / MMXFB1: BM305N - Final Mixer

volgnummer

	Value
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volgnummer	10
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Recipe no.

	Value
Recipe no.	GMST706003

BOM alternative

	Plant	Usage
BOM alternative	Gyo	Prod

Mixerproperties

	UoM	Target
Load factor	%	73.40
Mixervolume	liter	269.00
Total batch weight	kg	240.00
Total batch volume	liter	197.45
First component weight	kg	236.39

Mixing instruction

	Mixing cycle	Ram position	Rotor speed (rpm)	Time (s)
Step 1	Add masterbatch and chemicals	Up	30	20
Step 2	Ram Down	.	.	.
Step 3	Ram up / Ram down	.	.	.
Step 4	Ram up / Ram down	.	.	.
Step 5	Ram floating	.	.	.

Process parameters dump mill

	UoM	LSL
Temperature surface stockblender roll	°C	40
Temperature surface mill	°C	35

Process parameters Hold mill

	UoM	LSL
Temperature surface stockblender roll	°C	40
Temperature surface mill	°C	35

Process parameters sheeting mill

	UoM	LSL
Temperature surface stockblender roll	°C	45
Gauge sheet	mm	5
Temperature surface mill	°C	35

Temperature TCU

	UoM	LSL
Temperature TCU rotor	°C	40
Temperature TCU body / chamber	°C	40



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Processing Gyongyoshalas / MMXFB2: BM305N - Final Mixer

volgnummer

	Value
volgnummer	20

Recipe no.

	Value
Recipe no.	GMST706003

BOM alternative

	Plant	Mixer
BOM alternative	Gyo	MMXFB2

Mixerproperties

	UoM	Target
Load factor	%	73.40
Mixervolume	liter	269.00
Total batch weight	kg	240.00
Total batch volume	liter	197.45
First component weight	kg	236.39

Mixing instruction

	Rotor speed (rpm)
Step 1	30
Step 2	30
Step 3	25
Step 4	15
Step 5	30

Temperature TCU

	UoM	LSL
Temperature TCU rotor	°C	40
Temperature TCU body / chamber	°C	40
Temperature TCU discharge door	°C	55

SAP information

Article group PG

	Value
Article group PG	JD: EINDMENGSEL

Packaging PG

	Packaging	Amount
Packaging PG	CRM3	1200



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Physical in product

	Value
Physical in product	Yes

Weight

	Value
Weight	240

Article type

	Value
Article type	I: Halffabrikaten Alternatief

Aging SAP

	UoM	Value
Aging (minimal)	hours	8
Aging (Maximal)	day	15