

## PRODUCT INFORMATION

# P204 – MULTI-END ROVING FOR SMC



## DESCRIPTION

- P204 is a Multi-End Roving for Sheet Molding Compounds (SMC) and is manufactured from a collection of continuous glass fiber bundles which are gathered, without mechanical twist, into a single roving strand and wound into a doff
- P204 has a specially formulated proprietary sizing containing a silane coupling agent and is compatible with polyester, vinyl-ester (unsaturated) and polyurethane resin systems for a wide range of diverse applications
- Produced using Advantex® corrosion resistant glass fibers which combine the electrical and mechanical properties of traditional E-glass with the corrosion resistance of E-CR glass

## BENEFITS

- Outstanding impregnation and wet-out that allows for high to low glass loading depending on the end use requirement
- Multi-functional and pigmentable solution for Low Shrink (LS) and Low Profile (LP) formulations
- Excellent mechanical properties, dimensional stability and enhanced design flexibility
- Good surface aesthetics



## APPLICATIONS

Multi-purpose wide ranging SMC applications such as automotive 'Class-A', structural parts and for pigmented general purpose end-use products, and 'Low-Shrink' and 'Low Profile' applications

## TECHNICAL CHARACTERISTICS (NOMINAL VALUES)

Linear weight of roving (TEX) (gm/km)	Yield (yds/lb)	Loss on Ignition (%)	Moisture (%)
ISO 1889 : 1987	Conversion from tex	ISO 1887	ISO 3344 : 1977
2400	207	1.20	< 0.07
4800	103	1.20	< 0.07

**PRODUCT AVAILABILITY (STANDARD REFERENCE)**

Identification number	Bare Glass Linear density (tex)	Approx. package weight kg/lb	Available Package
RV P204 2400	2400	19.9/43.8	Bulk pack, Creel-Pak®
RV P204 4800	4800	31.0/68.4	Creel-Pak®

**PRODUCT CHARACTERISTICS (STANDARD REFERENCE)**

Manufacturing region	Internal	Doff characteristics		
		Diameter External mm/inch	Height mm/inch	Average weight kg/lb
Americas	P204 2400/4800*	285/11.2	265/10.40	19.9/43.8
		350/13.7		
Europe/Asia Pacific	P204 2400/4800*	290/11.4	260/10.23	19.0

**PACKAGING (STANDARD REFERENCE)**

Each P204 doff is protected by a tack-wrap polythene film and identified by an individual label. Please do not remove film during use. Customer specific packaging requirements may be available upon request.

Manufacturing region	Tex	Doff Diameter (mm/inch)	Layers/pallet	Doffs/layer	Total Number of doffs/pallet	Typical Creel Pack Number of ends run-out	Pallet	
							L x W x H cm [feet]	Average Net weight kg/lb*
Americas	2400/4800	285/11.2	3	16	48	16	114x114x122 [3.7x3.7x4.0]	955/2105
			4	12		12	142x109x122 [4.6x3.5x4.0]	1488/3280
Asia Pacific	2400/4800	290	4	16/12	64/48	4, 12 and 16	119x119x122	1220
								910
Europe	2400/4800	290	4	16/12	48/64	1 to 16	90x120x122	1000
							120x120x122	1220

(\*) Add 35kg [77lb] or 50kg [110lb] to obtain gross pallet weight.

**LABELING**

Each doff has a self-adhesive identification label, showing the product reference and the production date. Each pallet has four labels showing a bar-code along with the product description, manufacturing date/ time, manufacturing location and pallet serial number.

**STORAGE**

Unless otherwise specified, it is recommended to store glass fiber products in original packaging in a cool dry area. The best conditions are at a temperature between 15°C and 35°C and a relative humidity between 35% and 85%. The P204 roving, if stored under conditions stated above, can be used up to 2 years from the date of manufacture. However it is recommended to re-test before use after 1 year of storage. If storage temperature is less than 15°C it is recommended that rovings be transferred to the workshop at least 24 hours before intended processing. The packaging system is designed to allow short term stacking of two pallets. When stacking two high, care should be taken to correctly and smoothly place the top pallet. It is recommended to use a plywood plate (>12mm thick) between the two pallets in order to minimize compression damage of the lower pallet.

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