

# Chopped Strands

*for thermoplastics*

Nitto Boseki Co., Ltd



## Properties

- Excellent strand integrity
- Good flowability
- Good fibre dispersion in the extruder
- Excellent mechanical properties of the moulded parts
- No discoloration
- Good surface appearance of the moulded parts

Glass fiber roving strand chopped to a specified length is used as reinforcing material in combination with thermoplastic resins for injection molding. Depending upon the application, a strand may contain several hundreds of monofilaments with diameters ranging from 10  $\mu\text{m}$  to 13  $\mu\text{m}$ . The cutting length is 3 mm. Surfaces of monofilaments are specially coated with a suitable sizing which is compatible with the thermoplastic resins.

## Specifications

References	Diameter ( $\mu$ )	Resin	Loss of Ignition (%)	Moisture content (%)
<b>CSX3J-451</b>	10	PA6/66	0.45	<0.1
<b>CS3J-454</b>	10	PA6/66	0.60	<0.1
<b>CS3PE-291</b>	13	PPO	0.70	<0.1
<b>CS3PE-937</b>	13	PC+PC/ABS	1.00	<0.1
<b>CS3PE-455</b>	13	PC+PC/ABS	0.60	<0.1
<b>CS3J-941</b>	10	PBT	0.90	<0.1
<b>CS3PE-941</b>	13	PBT	0.90	<0.1
<b>CS3PE-948</b>	13	PBT	1.15	<0.1
<b>CS3PE-332</b>	13	ABS/SAN	0.90	<0.1
<b>CS3PE-956</b>	13	PP	0.65	<0.1
<b>CS3PE-957</b>	13	PP	0.70	<0.1
<b>CS3J-961</b>	10	PPS	0.60	<0.2
<b>CS3J-966</b>	10	POM	0.60	<0.2
<b>CS3J-256</b>	10	LCP	0.25	<0.2



## Mechanical Properties

References	Type of resin	Glass fiber content (%)	Tensile strength (Mpa)	Bending strength (Mpa)	Bending modulus Gpa	Impact strength J/m*	Elongation at break (%)
<b>CSX3J-451</b>	PA6	30	192	295	9.9	125	5
<b>CSX3J-451</b>	PA66	30	190	290	9.5	95	5
<b>CS3J-454</b>	PA6	30	184	281	9.8	116	5
<b>CS3J-454</b>	PA66	30	187	280	9.8	95	5
<b>CS3PE-291</b>	PPO	30	74	106	6.8	62	3
<b>CS3PE-937</b>	PC	30	122	187	7.6	118	3
<b>CS3PE-455</b>	PC	30	121	174	7.5	95	3
<b>CS3PE-937</b>	PC/ABS	30	108	157	6.4	122	3
<b>CS3PE-455</b>	PC/ABS	30	97	135	6.2	68	3
<b>CS3J-941</b>	PBT	30	136	218	9.4	105	4
<b>CS3PE-941</b>	PBT	30	130	210	9.2	101	4
<b>CS3PE-948</b>	PBT	30	136	217	9.2	106	4
<b>CS3PE-332</b>	ABS	20	100	145	6.6	70	4
<b>CS3PE-332</b>	SAN	20	120	157	8.1	49	3
<b>CS3PE-956</b>	PP	30	92	155	7.6	83	4
<b>CS3PE-957</b>	PP	30	100	161	7.7	91	4
<b>CS3J-961</b>	PPS	40	186	270	13.9	82	3
<b>CS3J-966</b>	POM	30	136	210	9.0	67	4
<b>CS3J-256</b>	LCP	30	163	172	11.2	115	2

\* notched\_inch

## Packaging

Type of packaging	Weight per bag (kg)	Number per pallet	Weight per pallet (kg)	20'/40' container	
				Pallets	Weight (kg)
<b>Paper Bags</b>	20	35	700	20	14 000
<b>Bigs Bags</b>	1 000	1	1 000	20	20 000

## Storage

Nittobo's chopped strands should be stored in their original packaging.

The temperature should not exceed 35 °C and the relative humidity should be kept below 70 %.

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