

Generic PP Copolymer - Talc

Polypropylene Copolymer

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PP Copolymer - Talc
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Talc filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.948 - 1.25	g/cm ³	ASTM D792
23°C	0.964 - 1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	0.60 - 21	g/10 min	ASTM D1238
230°C/2.16 kg	0.50 - 21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	6.80 - 9.20	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.70 - 1.4	%	ASTM D955
Transverse flow: 23°C	0.75 - 1.6	%	ASTM D955
23°C	0.88 - 1.2	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.020 - 0.050	%	ASTM D570
23°C, 24 hr	0.049 - 0.050	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	50 - 88		ASTM D785
Durometer Hardness			
23°C	65 - 74		ASTM D2240
23°C	62 - 72		ISO 868
Ball Indentation Hardness	30.0 - 90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1000 - 2530	MPa	ASTM D638
23°C	1650 - 3150	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	16.0 - 35.0	MPa	ASTM D638
Yield, 23°C	17.3 - 35.8	MPa	ISO 527-2
Fracture, 23°C	13.0 - 18.2	MPa	ASTM D638
Fracture, 23°C	14.9 - 25.6	MPa	ISO 527-2
23°C	20.1 - 30.7	MPa	ASTM D638

Tensile Elongation			
Yield, 23°C	2.0 - 7.6	%	ASTM D638
Yield, 23°C	1.7 - 9.5	%	ISO 527-2
Fracture, 23°C	3.0 - 100	%	ASTM D638
Fracture, 23°C	2.8 - 52	%	ISO 527-2
Flexural Modulus			
23°C	1350 - 2530	MPa	ASTM D790
23°C	1450 - 2830	MPa	ISO 178
Flexural Strength			
23°C	20.0 - 48.0	MPa	ASTM D790
23°C	17.0 - 46.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 - 11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	13 - 66	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	22 - 99	J/m	ASTM D256
23°C	2.8 - 8.3	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	350 - 860	J/m	ASTM D256
23°C	12 - 18	kJ/m ²	ISO 180
Dart Drop Impact (23°C)	0.946 - 4.76	J	ASTM D3029
Dart Drop Impact (23°C)	0.791 - 22.9	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	99.8 - 132	°C	ASTM D648
0.45 MPa, not annealed	52.0 - 136	°C	ISO 75-2/B
1.8 MPa, not annealed	56.7 - 70.2	°C	ASTM D648
1.8 MPa, not annealed	54.8 - 66.1	°C	ISO 75-2/A
Vicat Softening Temperature			
--	75.0 - 152	°C	ASTM D1525
--	70.0 - 153	°C	ISO 306
CLTE - Flow			
--	5.9E-5 - 8.1E-5	cm/cm/°C	ASTM D696
--	6.0E-5	cm/cm/°C	ISO 11359-2
RTI	50.0 - 115	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	596 - 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate	99 - 100	mm/min	ISO 3795
Glow Wire Flammability Index	550 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	550 - 755	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	

Drying Temperature	72.5 - 87.8	°C
Drying Time	1.5 - 3.0	hr
Suggested Max Moisture	0.050 - 0.054	%
Rear Temperature	199 - 216	°C
Middle Temperature	209 - 230	°C
Front Temperature	215 - 225	°C
Nozzle Temperature	214 - 222	°C
Processing (Melt) Temp	209 - 245	°C
Mold Temperature	29.4 - 65.9	°C
Injection Pressure	5.31 - 101	MPa
Holding Pressure	3.96 - 5.49	MPa
Back Pressure	0.300 - 0.840	MPa
Screw Speed	50 - 51	rpm

Injection instructions

This data represents typical values that have been calculated from all products classified as: Generic PP Copolymer - Talc. This information is provided for comparative purposes only.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

