

Sindustris PP TE5105

Polypropylene

Sincerity Australia Pty Ltd.

Message:

Sindustris PP TE5105 is a polypropylene material and contains mineral fillers. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Sindustris PP TE5105 are:

Impact modification

Impact resistance

good weather resistance

The typical application field of Sindustris PP TE5105 is: automotive industry

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Rubber		
Features	Impact resistance, high		
	Good weather resistance		
Uses	Car anti-collision bar		
	Automotive exterior parts		
UL File Number	E306922		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.90 - 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	17.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	200	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	1270	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	24.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-10°C, 6.40 mm	62	J/m	ASTM D256
23°C, 6.40 mm	460	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.20 mm)	115	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	3.0 - 4.0	hr	

Suggested Max Moisture	0.010	%
Rear Temperature	190 - 210	°C
Middle Temperature	200 - 230	°C
Front Temperature	200 - 230	°C
Nozzle Temperature	210 - 230	°C
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	40.0 - 60.0	°C
Back Pressure	29.4 - 58.8	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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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

