

Telcar® GS4000

Thermoplastic Elastomer

Teknor Apex Asia Pacific PTE. LTD.

Message:

Telcar®GS4000 is a thermoplastic elastomer (TPE) material. This product is available in the Asia-Pacific region and is processed by extrusion or injection molding.

Typical application areas include:

engineering/industrial accessories

Handle

container

Hose

business/office supplies

General Information			
Uses	overmolding		
	Washer		
	Pipe fittings		
	Soft handle		
	Food container		
	Stationery		
	Rubber nipple		
	Toothbrush handle		
	Seat		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	80	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.50	MPa	ASTM D412
300% strain	2.00	MPa	ASTM D412
Tensile Strength (Break)	3.00	MPa	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Injection	Nominal Value	Unit	
Drying Temperature	40.0 - 80.0	°C	

Rear Temperature	180 - 250	°C
Middle Temperature	180 - 250	°C
Front Temperature	180 - 250	°C
Mold Temperature	40.0 - 60.0	°C
Injection Pressure	10.3 - 138	MPa
Injection Rate	Fast	

Injection instructions

Purging Material: HDPE, PP

Extrusion	Nominal Value	Unit
Drying Temperature	40.0 - 80.0	°C
Cylinder Zone 1 Temp.	170 - 230	°C
Cylinder Zone 2 Temp.	170 - 230	°C
Cylinder Zone 3 Temp.	170 - 230	°C
Cylinder Zone 4 Temp.	170 - 230	°C
Cylinder Zone 5 Temp.	170 - 230	°C

Extrusion instructions

Compression Ratio: 2.5 to 5.0Purging Material: HDPE, PLLD Ratio: 25:1 or higher

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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



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