

Telcar® DE 5052

Thermoplastic Elastomer

Teknor Apex Asia Pacific PTE. LTD.

Message:

Telcar® DE 5052 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
- Consumer goods

General Information			
Uses	Handle		
	Plug		
	Shock Absorbing Pad		
	Soft handle		
	Toys		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.80	MPa	ASTM D412
300% strain	3.00	MPa	ASTM D412
Tensile Strength (Break)	5.00	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Injection	Nominal Value	Unit	
Drying Temperature	40.0 - 80.0	°C	
Rear Temperature	140 - 180	°C	
Middle Temperature	140 - 180	°C	
Front Temperature	140 - 180	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Pressure	2.07 - 20.7	MPa	

Injection Rate	Slow-Moderate	
Injection instructions		
Purging Material: HDPE, PP		
Extrusion	Nominal Value	Unit
Drying Temperature	40.0 - 80.0	°C
Cylinder Zone 1 Temp.	140 - 180	°C
Cylinder Zone 2 Temp.	140 - 180	°C
Cylinder Zone 3 Temp.	140 - 180	°C
Cylinder Zone 4 Temp.	140 - 180	°C
Cylinder Zone 5 Temp.	140 - 180	°C
Extrusion instructions		
Compression Ratio: 2.0 to 4.0Purging Material: HDPE, PPLD Ratio: 25:1 or higher		

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