

# Telcar® TL-2417J NAT

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Telcar TL-2417J is a high performance thermoplastic elastomer designed specifically for extrusion coating of fibers and fabrics for a variety of industrial and consumer applications. Telcar TL-2417J is a high hardness, high density, flame retardant grade as an alternative to flexible PVC.

General Information			
Features	High specific gravity		
	High density		
	Workability, good		
	Adhesiveness		
	Good liquidity		
	Good coloring		
	Good adhesion		
	Good toughness		
	High hardness		
	Excellent appearance		
Uses	Flame retardancy		
	Industrial application		
	Consumer goods application field		
	Fabric coating		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	28	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A, 1 sec	92		ISO 868
Shaw A, 5 seconds	90		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Transverse flow: 100% strain	3.90	MPa	ISO 37

Flow: 100% strain	5.60	MPa	ISO 37
Tensile Stress			ISO 37
Transverse flow: Fracture	4.00	MPa	ISO 37
Flow: Fracture	9.30	MPa	ISO 37
Tensile Elongation			ISO 37
Transverse flow: Fracture	460	%	ISO 37
Flow: Fracture	380	%	ISO 37
Tear Strength			ISO 34-1
Transverse flow	56	kN/m	ISO 34-1
Flow	48	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 23 hr	41	%	ISO 815
70°C, 22 hr	64	%	ISO 815
90°C, 70 hr	81	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 168 hr)	10	%	ISO 188
Change in Tensile Strain at Break in Air (125°C, 168 hr)	-34	%	ISO 188
Change in Shore Hardness in Air (Shao A, 125°C, 168 hr)	-3.1		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec <sup>-1</sup> )	300	Pa · s	ASTM D3835

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	166 - 188	°C
Cylinder Zone 2 Temp.	171 - 193	°C
Cylinder Zone 3 Temp.	177 - 199	°C
Cylinder Zone 4 Temp.	182 - 204	°C
Cylinder Zone 5 Temp.	182 - 204	°C
Die Temperature	190 - 210	°C
Extrusion instructions		

螺杆转速30 - 100 rpm

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