



Telcar® TL-3088 NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Telcar TL-3088 is a specialty thermoplastic elastomer designed for the consumer and industrial market. Telcar TL-3088 is a medium hardness, low density grade suitable for injection molding and extrusion.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Good Colorability • Good Mold Release • Good Moldability	• Good Processability • Good Processing Stability • High Hardness • Low Density	• Low Flow • Low Specific Gravity • Specialty Grade
Uses	• Industrial Applications • Rubber Replacement	• Seals • Sporting Goods	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	8.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	725	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	43		
Shore A, 5 sec, Injection Molded	41		

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 390	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	370 to 410	°F
Processing (Melt) Temp	370 to 410	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 1000	psi

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Injection	Nominal Value	Unit
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	320 to 370	°F
Cylinder Zone 2 Temp.	329 to 380	°F
Cylinder Zone 3 Temp.	329 to 390	°F
Cylinder Zone 4 Temp.	329 to 390	°F
Cylinder Zone 5 Temp.	329 to 400	°F
Die Temperature	329 to 410	°F
Extrusion Notes		

Screw Speed: 30 to 100 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.