DURAFLEX TPU 90A LM BK

Thermoplastic Polyurethane Elastomer

Conventus Polymers LLC

Technical Data

Product Description			
DURAFLEX TPU 90A LM BK is a 9 in black. This grade is available in A		ures a low compression set and 4% laser	marking masterbatch. It is available
General			
Material Status	Commercial: Active		
Literature ¹	Technical Datasheet (English)		
Search for UL Yellow Card	 Conventus Polymers L 	LC	
Availability	 Asia Pacific 	Europe	North America
Features	 Laser Markable 	Low Compression Set	
Uses	 Masterbatch 		
Appearance	Black		
Physical		Nominal Value Unit	Test Method
Density / Specific Gravity		1.14 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ³		22 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955

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Flow : 1.60 mm	0.65 to 0.75 %	
Across Flow : 1.60 mm	6.5E-3 to 7.5E-3 %	
Mechanical	Nominal Value Unit	Test Method
Flexural Modulus	77.9 MPa	ASTM D790
Taber Abrasion Resistance	10.3 m·g	ASTM D1044
Elastomers	Nominal Value Unit	Test Method
Tensile Stress (100% Strain)	11.5 MPa	ASTM D412
Tensile Strength (Break)	46.2 MPa	ASTM D412
Tensile Elongation (Break)	470 %	ASTM D412
Tear Strength	137 kN/m	ASTM D624
Compression Set (25°C, 22 hr)	24 %	ASTM D395B
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore A)	90	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Glass Transition Temperature	-24.4 °C	DSC
Vicat Softening Temperature	111 °C	ASTM D1525
CLTE - Flow	1.5E-4 cm/cm/°C	ASTM D696
	NT 1 1 X / 1 1 1 /	

Injection	Nominal Value Unit
Drying Temperature	88 to 104 °C
Processing (Melt) Temp	204 to 221 °C
Mold Temperature	16 to 60 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 374°F / 19.2 lb



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Thermoplastic Polyurethane Elastomer Conventus Polymers LLC

Where to Buy

Supplier

Conventus Polymers LLC Parsippany, Parsippany USA Telephone: 973-343-7669 Web: http://www.conventuspolymers.com/

Distributor

Conventus Polymers Telephone: 973-343-7669 Web: http://www.conventuspolymers.com/ Availability: North America



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