

Lifoflex® UVX 83.01 B043-1

Thermoplastic Elastomer

ELASTO

Message:

There are many advantages in using polyamide (PA) in an application, including high temperature resistance, a very high strength, a matt surface and excellent stiffness and impact resistance. When combined with Lifoflex PA bonding grades, you get the properties of both materials in one product. These special TPE grades offer excellent bonding to PA6, PA66, PA12 in two component applications. Giving you the advantage of soft-touch qualities without the need for separate primer or adhesive. A high bonding strength is also possible to glass fibre reinforced polyamide materials (up to 40% glass fibre).

The outstanding properties of these TPE compounds, such as high service temperature range, high oil resistance, soft touch surface and high flexibility, open up the design possibilities in a wide variety of applications.

The Lifoflex PA bonding grades are very easy to process via injection moulding. The wide processing window results in a lower rate of defective parts and faster cycle times.

General Information			
Features	Bondability		
	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Flexibility		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Heat Resistance		
	High Strength		
	Oil Resistant		
Uses	Automotive Applications		
	Engineering Parts		
	Flexible Grips		
	Gaskets		
	Housings		
	Power/Other Tools		
	Seals		
	Wheels		
Agency Ratings	EU 2003/11/EC		
RoHS Compliance	RoHS Compliant		
Processing Method	Coextrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	7.0	g/10 min	ISO 1133

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	86		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Flow (Yield)	8.90	MPa	DIN 53504
Tensile Elongation - Flow (Break)	470	%	DIN 53504
Compression Set			ISO 815
23°C, 22 hr	25	%	
70°C, 22 hr	52	%	
110°C, 24 hr	73	%	
Additional Information	Nominal Value	Unit	
Oil Absorption ¹ (70°C)	12	%	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
NOTE			

1. 72 hr, Motor Oil 5W-30 fully synthetic

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