

Multi-Flex® TPE A4001 LC

Thermoplastic Elastomer

Multibase, A Dow Corning Company

Message:

Multi-Flex® TPE A4001 LC is a Thermoplastic Elastomer (TPE) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Features	Low Compression Set		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	34		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.98	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength	16.6	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	11	%	
70°C, 22 hr	19	%	
100°C, 22 hr	55	%	
Injection	Nominal Value	Unit	
Drying Temperature	65.6	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	188	°C	
Middle Temperature	193	°C	
Front Temperature	199	°C	
Nozzle Temperature	199	°C	
Processing (Melt) Temp	199	°C	
Mold Temperature	26.7 to 43.3	°C	
Injection Rate	Moderate-Fast		
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 3 Temp.	188	°C	
Cylinder Zone 5 Temp.	210	°C	
Melt Temperature	204	°C	
Die Temperature	213	°C	

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