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Technical Data

Product Description					
MULTIFLEX™ G60 A 11 BT 13893	Thermoplastic Elas	stomer based Styrenic			
Generic	This data represer	nts typical values that have l	been calculated from all p	roducts classified	as: Generic TPE
IPE	This information is	provided for comparative p	urposes only.		
General	MULTIFLE G60 A 11	EX™ BT 13893	Generic TPE		
Manufacturer / Supplier	DuPont	Mobility & Materials	Generic		
Generic Symbol	• TPE		• TPE		
Material Status	Comme	ercial: Active	Commerce	cial: Active	
Availability	 Africa & Asia Pa Europe Latin Ar North A 	Middle East cific nerica merica	 Africa & Middle East Asia Pacific Europe Latin America North America 		
RoHS Compliance	 Contact 	Manufacturer			
Physical		MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Density / Specific Gravity					
			0.785 to 1.34	g/cm³	ASTM D792
		1.15	0.828 to 1.21	g/cm³	ISO 1183
			0.870 to 1.18	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)					
190°C/2.16 kg			0.10 to 22	g/10 min	ASTM D1238
230°C/2.16 kg			0.20 to 18	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) ((230°C/2.16 kg)	1.0	4.8 to 8.6	cm ³ /10min	ISO 1133
Spiral Flow			22.9 to 107	cm	
Molding Shrinkage					
Flow			0.47 to 2.3	%	ASTM D955
Across Flow			0.10 to 2.3	%	ASTM D955
			1.4 to 1.8	%	ISO 294-4
Flow		1.4		%	ISO 294-4
Flow Length ²		680		mm	
Mechanical		MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Tensile Modulus			0.100 to 8.60	MPa	ASTM D638
Tensile Strength					
Yield			2.52 to 32.5	MPa	ASTM D638
Yield			5.00 to 36.0	MPa	ISU 527-2
Break			2.90 to 48.3	MPa	ASTM D638
Вгеак			1.70 to 48.0	MPa	150 527-2
			0.0414 to 13.0	MPa	ASTIVI D030
 Tanaila Elangation			1.90 10 9.09	MPa	150 527-2
Break			320 to 820	0/_	ASTM D639
Break			79 to 850	/0 0/2	ISO 527-2
Nominal Tensile Strain at Break			530 to 1000	0/2	ISO 527-2
Flexural Modulus			000101000	70	100 021-2
			1 86 to 338	MPa	ASTM D790
-			2 40 to 638	MPa	ISO 178
Flexural Stress			2.40 to 19.3	MPa	ISO 178
			2.1010 1010		

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Mechanical	MULTIFLEX™ G60 A 11 BT 13893	Generic TPF	Unit	Test Method
Taber Abrasion Resistance		1.18 to 370	ma	ASTM D1044
Films	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Oxygen Permeability		380 to 550	cm³⋅mm/m²/atm/ 24 hr	ASTM D3985
Oxygen Transmission Rate (Wet)		422 to 516	cm ³ /m ² /24 hr	ASTM F1927
Water Vapor Transmission Rate		31 to 520	g/m²/24 hr	ASTM F1249
Elastomers	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Tensile Set		2 to 26	%	ASTM D412
Tensile Stress				
20% Strain		0.500 to 3.10	MPa	ISO 37
50% Strain		0.0242 to 5.80	MPa	ASTM D412
100% Strain		0.0193 to 4.64	MPa	ASTM D412
100% Strain		0.100 to 4.35	MPa	ISO 37
Across Flow : 100% Strain	3.10		MPa	ISO 37
200% Strain		0.0440 to 3.82	MPa	ASTM D412
300% Strain		0.0429 to 6.78	MPa	ASTM D412
300% Strain	4.10	0.720 to 6.30	MPa	ISO 37
Tensile Strength				
Yield		1.20 to 10.4	MPa	ASTM D412
Yield		1.63 to 13.3	MPa	ISO 37
Break		2 46 to 12 9	MPa	ASTM D412
Break	6 40	1.00 to 15.1	MPa	150.37
		0.300 to 14.0	MPa	ASTM D412
Tensile Flongation		0.000 10 14.0	ivii d	//OTWID412
Vield		500 to 1000	%	ASTM D412
Break		330 to 900	%	
Break	> 300	290 to 930	%	ISO 37
Tear Strength	2 300	200 10 000	70	100 07
lear Strength		2.04 to 1990	kN/m	
		2.94 to 1000	kN/m	AG 110 D024
 Flow		0.47 10 44.0	KIN/III kN/m	130 34-1
Compression Set	29.0		KIN/III	130 34-1
Compression Set		0 0 to 67	0/	
		0.9 10 0/	70	AO I IVI DO90
 22°C		0.0 10 8 1	<u>۷</u> 0	130 015
$23 \cup$ 70° C 24 hr	12		<u>%</u>	130 815
100, 24 m	24		<u>%</u>	130 815
100°C, 24 nr	39		%	150 815
mpact	G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Notched Izod Impact				
		40 to 950	J/m	ASTM D256
		7.0 to 71	kJ/m²	ISO 180
Hardness	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Durometer Hardness				
		29 to 93		ASTM D2240
		30 to 91		ISO 868
Shore Hardness		28 to 91		ISO 48-4
IRHD Hardness		49 to 78		ISO 48



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Thermal	MULTIFLEX™ G60 A 11 BT 13893	Generic TPF	Unit	Test Method
Continuous Use Temperature		105 to 107	°C	ASTM D794
Brittleness Temperature				
		-65.2 to -54.9	°C	ASTM D746
		-67.9 to -64.9	°C	ISO 812
Glass Transition Temperature		-57.2 to -39.0	°C	DSC
Vicat Softening Temperature		40.0 to 207	°C	ASTM D1525
Melting Temperature		160 to 218	°C	
Specific Heat		1600 to 3100	J/kq/°C	ASTM C351
Thermal Conductivity		0.15 to 0.23	W/m/K	ASTM C177
RTI Elec		50.0 to 90.0	°C	UL 746B
RTI Str		50.0 to 90.0	°C	UL 746B
Aging	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Change in Tensile Strength in Air				
		-22 to 29	%	ASTM D573
		-13 to 22	%	ISO 188
Change in Ultimate Elongation in Air				
		-26 to 5.2	%	ASTM D573
		-17 to 21	%	ISO 188
Change in Shore Hardness in Air		-0.16 to 4.7		ISO 188
Change in Tensile Strength				
		-32 to -0.98	%	ASTM D471
		-5.0 to 1.0	%	ISO 1817
Change in Ultimate Elongation				
		-44 to 5.4	%	ASTM D471
		-5.0 to 4.0	%	ISO 1817
Change in Shore Hardness		1.0 to 1.1		ISO 1817
Change in Volume				
		-12 to 74	%	ASTM D471
		-12 to 23	%	ISO 1817
Electrical	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Surface Resistivity		6.0E+2 to 2.5E+14	ohms	ASTM D257
Volume Resistivity		5.1E+5 to 9.7E+16	ohms∙cm	ASTM D257
Dielectric Strength		20 to 46	kV/mm	ASTM D149
Dielectric Constant				
		2.10 to 2.53		ASTM D150
		4.28		IEC 60250
Dissipation Factor				
		7.0E-5 to 0.050		ASTM D150
		0.013 to 0.069		IEC 60250
Flammability	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Burning Rate		100	mm/min	ISO 3795
Glow Wire Flammability Index		952 to 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature		650 to 850	°C	IEC 60695-2-13
Oxygen Index				
		17 to 32	%	ASTM D2863
		25 to 40	%	ISO 4589-2

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Optical	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Light Transmittance		91.0 to 94.0	%	ASTM D1003
Haze		1.00 to 36.2	%	ASTM D1003
Fill Analysis	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	Test Method
Apparent Viscosity		0.116 to 41.5	Pa·s	ASTM D3835
Melt Viscosity		6.50 to 138	Pa·s	ASTM D3835
Additional Information	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	
Compatibility	Polyolefins			

Injection	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	
Drying Temperature		59 to 101	°C	
Drying Time		2.0 to 3.6	hr	
Dew Point		-18	°C	
Suggested Max Moisture		0.020 to 0.081	%	
Suggested Max Regrind		20	%	
Hopper Temperature		25 to 163	°C	
Rear Temperature		135 to 209	°C	
Middle Temperature		156 to 213	°C	
Front Temperature		169 to 213	°C	
Nozzle Temperature		185 to 226	°C	
Processing (Melt) Temp		116 to 230	°C	
Mold Temperature		22 to 47	°C	
Injection Pressure		0.686 to 9.94	MPa	
Holding Pressure		2.94 to 56.4	MPa	
Back Pressure		0.170 to 1.07	MPa	
Screw Speed		69 to 75	rpm	
Clamp Tonnage		3.8	kN/cm ²	
Cushion		14.4 to 14.6	mm	
Vent Depth		0.019 to 0.026	mm	
The second se				

Injection Notes

Generic TPE This data represents typical values that have been calculated from all products classified as: Generic TPE

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Extrusion	MULTIFLEX™ G60 A 11 BT 13893	Generic TPE	Unit	
Drying Temperature		67 to 82	°C	
Drying Time		1.9 to 3.0	hr	
Hopper Temperature		168 to 169	°C	
Cylinder Zone 1 Temp.		78 to 208	°C	
Cylinder Zone 2 Temp.		178 to 214	°C	
Cylinder Zone 3 Temp.		79 to 3581	°C	
Cylinder Zone 4 Temp.		171 to 232	°C	
Cylinder Zone 5 Temp.		177 to 224	°C	
Adapter Temperature		193 to 205	°C	
Melt Temperature	180 to 200	189 to 217	°C	
Die Temperature		191 to 226	°C	
Extrusion Melt Temperature, Optimum	190		°C	

Extrusion Notes

Generic TPE

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Notes

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

² 8 MPa



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