Product Comparison



Technical Data

Product Description	
	Base Polymer
	Polyphenylene Sulphide
	Filler/Additive System
	65 % glass fibre/mineral
TEDUR®	Special Features
L 9217-1	high stiffness, hot oil resistant, good hydrolysis resistant
	Market Segment
	Automotive, Machinery, Lighting
	Typical Applications
	highly stressed parts
•	This data represents typical values that have been calculated from all products classified as: Generic PPS - Glass Fiber\Mineral
Generic PPS - Glass Fiber\Mineral	- Glass Fibel (Willield)
	This information is provided for comparative purposes only.
	TEDLID® Conside

	The infermation is provided for comparative purposes of	<u> </u>
General	TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral
Manufacturer / Supplier	 MOCOM Compounds GmbH & Co. KG 	Generic
Generic Symbol	• PPS	• PPS
Material Status	Commercial: Active	Commercial: Active
Availability	Asia PacificEuropeNorth America	 Africa & Middle East Asia Pacific Europe Latin America North America
Filler / Reinforcement	 Glass Fiber\Mineral, 65% Filler by Weight 	 Glass Fiber\Mineral
Features	High StiffnessHydrolysis ResistantOil Resistant	
Uses	Automotive ApplicationsLighting ApplicationsMachine/Mechanical Parts	
RoHS Compliance	Contact Manufacturer	
Processing Method	 Injection Molding 	
Frocessing Method	injection wolding	

Physical	TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	Test Method
Density / Specific Gravity				
		1.71 to 2.00	g/cm³	ASTM D792
	1.97	1.62 to 2.11	g/cm³	ISO 1183
Spiral Flow		8.93 to 12.0	cm	
Molding Shrinkage				
Flow		0.20 to 0.30	%	ASTM D955
Across Flow		0.40 to 1.0	%	ASTM D955
		0.20 to 0.60	%	ISO 294-4
Water Absorption				
24 hr		0.019 to 0.020	%	ASTM D570
24 hr, 23°C		0.019 to 0.020	%	ISO 62
Saturation, 23°C		0.020 to 0.023	%	ISO 62
Equilibrium, 23°C, 50% RH		0.020 to 0.20	%	ISO 62

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Markania	TEDUR®	Generic	11.0	Total NA 10 1
Mechanical	L 9217-1	PPS - Glass Fiber\Mineral	Unit	Test Method
Tensile Modulus				
	40000	14400 to 19100	MPa	ASTM D638
 Tensile Stress	19000	7700 to 24500	MPa	ISO 527-1
Break	140	59.1 to 187	MPa	ISO 527-2
		100 to 174	MPa	ASTM D638
		114 to 180	MPa	ISO 527-2
Tensile Elongation		11110 100	WII G	100 027 2
Break		0.80 to 2.0	%	ASTM D638
Break	1.2	0.69 to 2.0	%	ISO 527-2
Flexural Modulus				
		11900 to 20000	MPa	ASTM D790
	19000	11900 to 21000	MPa	ISO 178
Flexural Strength				
		149 to 261	MPa	ASTM D790
	240	177 to 264	MPa	ISO 178
Compressive Strength		138 to 296	MPa	ASTM D695
Shear Strength		60.0 to 65.3	MPa	ASTM D732
Poisson's Ratio		0.34 to 0.36		ASTM E132
Coefficient of Friction		0.35		ASTM D1894
Flexural Deflection at Max Force	1.4		%	ISO 178
mpact	TEDUR® L 9217-1	Generic PPS - Glass Fiber∖Mineral	Unit	Test Method
Charpy Notched Impact Strength		5.0 to 11	kJ/m²	ISO 179
Charpy Unnotched Impact Strength				
		5.3 to 31	kJ/m²	ISO 179
23°C	25		kJ/m²	ISO 179/1eU
Notched Izod Impact				
		50 to 85	J/m	ASTM D256
		4.8 to 10	kJ/m²	ISO 180
Unnotched Izod Impact		000 / 000	17	A OTA D 40 10
		200 to 320	J/m	ASTM D4812
	TEDUD®	10 to 27	kJ/m²	ISO 180
Hardness	TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	Test Method
Rockwell Hardness				
		100 to 121		ASTM D785
		95 to 123		ISO 2039-2
Thermal	TEDUR® L 9217-1	Generic PPS - Glass Fiber∖Mineral	Unit	Test Method
Deflection Temperature Under Load				
1.8 MPa, Unannealed		265	°C	ASTM D648
1.8 MPa, Unannealed	278	259 to 275	°C	ISO 75-2/A
8.0 MPa, Unannealed		215	°C	ISO 75-2/C
Melting Temperature	280	278 to 285	°C	ISO 11357-3
CLTE				
Flow		1.7E-5 to 2.0E-5	cm/cm/°C	ASTM D696
Flow		1.0E-5 to 1.5E-5	cm/cm/°C	ASTM E831
Flow		9.6E-6 to 2.4E-5	cm/cm/°C	ISO 11359-2
Transverse		1.7E-5 to 2.0E-5	cm/cm/°C	ASTM D696
Transverse		2.6E-5 to 7.1E-5	cm/cm/°C	ASTM E831
Transverse		1.9E-5 to 3.2E-5	cm/cm/°C	ISO 11359-2

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Product Comparison



TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	Test Method
	0.50 to 0.74	W/m/K	ASTM C177
TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	Test Method
			ASTM D257
	9.8E+14 to 1.0E+15	ohms	IEC 62631-3-2
			ASTM D257
			IEC 60093
	1.0E+13 to 3.5E+13	ohms⋅m	IEC 62631-3-1
			ASTM D149
	13 to 27	kV/mm	IEC 60243-1
	4.00 :		
			ASTM D150
			IEC 60250
	5.10		IEC 60250
			ASTM D150
			IEC 60250
		sec	ASTM D495
			UL 746A
		V	IEC 60112
TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	Test Method
V-0			UL 94
960		°C	IEC 60695-2-1
TEDUR® L 9217-1	Generic PPS - Glass Fiber\Mineral	Unit	
	114 to 151		
130 to 140		°C	
	0.0: 4.4		
	3.0 to 4.1		
	280 to 320	°C	
320 to 340			
> 140			
	65.0 to 100	MPa	
	0.550 to 3.04	MPa	
	TEDUR® L 9217-1	L 9217-1 0.50 to 0.74 TEDUR® Generic L 9217-1 1.0E+3 to 1.0E+16 9.8E+14 to 1.0E+15 5.5E+2 to 2.5E+16 1.0E+16 to 1.1E+16 1.0E+13 to 3.5E+13 16 to 18 13 to 27 4.00 to 5.01 3.94 to 5.62 5.10 2.0E-3 to 4.3E-3 1.0E-3 to 2.1E-3 179 to 185 225 to 275 137 to 227 TEDUR® Generic L 9217-1 PPS - Glass Fiber\Mineral V-0 960 TEDUR® Generic L 9217-1 PPS - Glass Fiber\Mineral 3.0 to 4.1 2.0 to 4.0 3.0 to 4.1 2.0 to 4.0 3.0 to 4.1 2.0 to 4.0 3.0 to 320 309 to 321 305 to 335 305 to 335 305 to 321 320 to 340 304 to 335 > 140 135 to 150 65.0 to 100	L 9217-1 PPS - Glass FiberMineral 0.50 to 0.74 W/m/K Generic L 9217-1 PPS - Glass FiberMineral 1.0E+3 to 1.0E+16 ohms 9.8E+14 to 1.0E+15 ohms 5.5E+2 to 2.5E+16 ohms·cm 1.0E+16 to 1.1E+16 ohms·cm 1.0E+13 to 3.5E+13 ohms·m 16 to 18 kV/mm 13 to 27 kV/mm 14 to 18 kV/mm 13 to 27 kV/mm 2.0E-3 to 4.3E-3 1.0E-3 to 2.1E-3 1.79 to 185 sec 225 to 275 V 137 to 227 V TEDUR® Generic L 9217-1 PPS - Glass FiberMineral V-0 960 °C TEDUR® Generic L 9217-1 PPS - Glass FiberMineral V-0 960 °C TEDUR® Generic L 9217-1 PPS - Glass FiberMineral Unit 114 to 151 °C 3.0 to 4.1 hr 2.0 to 4.0 °C 3.0 to 4.1 hr 2.0 to 4.0 °C 309 to 320 °C 309 to 320 °C 309 to 335 °C 305 to 321 °C 305 to 325 °C 305 to 321

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

Generic PPS - Glass Fiber\Mineral

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Notes

- Glass Fiber\Mineral

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