

Generic TPEE

Thermoplastic Polyester Elastomer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05 - 1.29	g/cm ³	ASTM D792
23°C	1.16 - 1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50 - 28	g/10 min	ASTM D1238
Molding Shrinkage			
Flow: 23°C	1.3 - 1.9	%	ASTM D955
23°C	0.62 - 2.0	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.45 - 0.51	%	ASTM D570
23°C, 24 hr	0.30 - 0.60	%	ISO 62
Equilibrium, 23°C	0.28 - 0.56	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	30 - 99		ASTM D2240
23°C	40 - 63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	50.0 - 523	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	13.9 - 40.7	MPa	ASTM D638
Yield, 23°C	2.40 - 40.0	MPa	ISO 527-2
Fracture, 23°C	6.86 - 42.2	MPa	ASTM D638
Fracture, 23°C	15.0 - 49.0	MPa	ISO 527-2
23°C	2.26 - 27.8	MPa	ASTM D638
Tensile Elongation			
Fracture, 23°C	390 - 720	%	ASTM D638
Fracture, 23°C	230 - 500	%	ISO 527-2
Flexural Modulus			
23°C	15.0 - 307	MPa	ASTM D790
23°C	54.0 - 350	MPa	ISO 178
Flexural Stress			
23°C	9.98 - 12.0	MPa	ISO 178

Yield, 23°C	1.77 - 39.2	MPa	ASTM D790
Compressive Modulus	2.00 - 39.2	MPa	ASTM D695
Compressive Strength (23°C)	2.40 - 39.2	MPa	ASTM D695
Taber Abrasion Resistance (23°C)	3.00 - 20.4	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% strain, 23°C)	2.50 - 28.5	MPa	ASTM D412
Tear Strength (23°C)	74.3 - 250	kN/m	ASTM D624
Compression Set	47 - 65	%	ASTM D395
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130 - 150	J/m	ASTM D256
Unnotched Izod Impact (23°C)	69 - 580	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	43.0 - 135	°C	ASTM D648
0.45 MPa, not annealed	56.0 - 193	°C	ISO 75-2/B
1.8 MPa, not annealed	25.0 - 147	°C	ASTM D648
Brittleness Temperature	-65.5 - -65.0	°C	ASTM D746
Vicat Softening Temperature	64.7 - 211	°C	ASTM D1525
Melting Temperature			
--	195 - 219	°C	
--	171 - 223	°C	DSC
--	200 - 218	°C	ASTM D3418
--	204 - 218	°C	ISO 3146
CLTE - Flow			
--	1.4E-4 - 1.7E-4	cm/cm/°C	ASTM D696
--	1.1E-4 - 1.7E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	5.0E+8 - 1.8E+14	ohms·cm	ASTM D257
Dielectric Strength (23°C)	20 - 30	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	81.5 - 106	°C	
Drying Time	2.5 - 4.0	hr	
Suggested Max Moisture	0.079 - 0.10	%	
Rear Temperature	187 - 221	°C	
Middle Temperature	209 - 245	°C	
Front Temperature	232 - 245	°C	
Processing (Melt) Temp	189 - 231	°C	
Mold Temperature	35.0 - 40.6	°C	
Screw Speed	45 - 60	rpm	
Injection instructions			

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