

Generic PPE+PS+PP

Polyphenylene Ether + PS + PP

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PPE+PS+PP
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.987 - 1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	11 - 16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.65 - 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1170 - 1710	MPa	ASTM D638
23°C	1660 - 1760	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	33.8 - 43.8	MPa	ASTM D638
Yield, 23°C	33.9 - 44.6	MPa	ISO 527-2
Fracture, 23°C	27.6 - 41.5	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	6.5 - 15	%	ASTM D638
Fracture, 23°C	83 - 200	%	ASTM D638
Fracture, 23°C	46 - 120	%	ISO 527-2
Flexural Modulus (23°C)	1340 - 1560	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	49.0 - 53.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150 - 590	J/m	ASTM D256
Instrumented Dart Impact (23°C)	36.2 - 45.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	110 - 113	°C	ASTM D648
1.8 MPa, not annealed	71.1 - 92.0	°C	ASTM D648
Vicat Softening Temperature			
--	85.0 - 146	°C	ASTM D1525
--	102 - 118	°C	ISO 306
Linear thermal expansion coefficient			ASTM E831
Flow	8.1E-5 - 1.6E-4	cm/cm/°C	ASTM E831
Lateral	7.2E-5 - 1.1E-4	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	

Drying Temperature	62.5 - 62.8	°C
Rear Temperature	250 - 252	°C
Middle Temperature	260 - 263	°C
Front Temperature	268 - 270	°C
Nozzle Temperature	274 - 275	°C
Processing (Melt) Temp	274 - 275	°C
Mold Temperature	40.6 - 50.0	°C

Injection instructions

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