

NORYL PPX™ PPX7110 resin

Polyphenylene Ether + PS + PP

SABIC Innovative Plastics

Message:

PPX7110 is an alloy of PP and PPO, providing high impact and good heat resistance. Generic identification acc. ISO11469: >PP+PPE+PS-I<

General Information			
Features	Impact resistance, high		
	Heat resistance, high		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PP+PPE+PS-I		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	11.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	65.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	34.0	MPa	ISO 527-2/5
Fracture	30.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	6.0	%	ISO 527-2/5
Fracture	200	%	ISO 527-2/5
Flexural Modulus ¹	1700	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	75.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	38	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact ⁴			ISO 180/1A
-30°C	9.0	kJ/m ²	ISO 180/1A
23°C	25	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength ⁵		ISO 180/1U	
-30°C	No Break	ISO 180/1U	
23°C	No Break	ISO 180/1U	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, unannealed, 100 mm span	108	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	75.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	95.0	°C	ISO 306/B50
--	100	°C	ISO 306/B120
Linear thermal expansion coefficient		ISO 11359-2	
Flow: 23 to 60°C	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (3.20 mm, in Oil)	22	kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250	
50 Hz	2.20	IEC 60250	
60 Hz	2.20	IEC 60250	
1 MHz	2.20	IEC 60250	
Dissipation Factor		IEC 60250	
50 Hz	6.0E-4	IEC 60250	
60 Hz	6.0E-4	IEC 60250	
1 MHz	6.0E-4	IEC 60250	
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (3.20 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 65.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	225 - 275	°C	
Middle Temperature	240 - 285	°C	
Front Temperature	250 - 290	°C	
Nozzle Temperature	260 - 290	°C	
Processing (Melt) Temp	260 - 290	°C	
Mold Temperature	40.0 - 60.0	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		

3.	80*10*4 sp=62mm
4.	80*10*4
5.	80*10*4
6.	120*10*4 mm

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