

SABIC Innovative Plastics NORYL PX2245 PPE+HIPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

NORYL PX2245 is a halogen free (according to VDE/DIN 472 part815) flame retardant material. The material fulfills the IEC 65 part 20.2 requirement at 1.6 mm thickness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX2245-PPEHIPS-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---|---|---|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.0600 % | 0.0600 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.20 % | 0.20 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | on Tensile Bar; SABIC Method |
| Melt Index of Compound | 13 g/10 min @Load 1.20 kg, Temperature 280 ^o C | 13 g/10 min @Load 2.65 lb, Temperature 536 ^o F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|--|------------------------------------|
| Hardness, H358/30 | 75.0 MPa | 10900 psi | ISO 2039-1 |
| Tensile Strength at Break | 35.0 MPa | 5080 psi | 50 mm/min; ISO 527 |
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 10 % | 10 % | 50 mm/min; ISO 527 |
| Elongation at Yield | 2.5 % | 2.5 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 2.30 GPa | 334 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 60.0 MPa | 8700 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.20 GPa | 319 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 80*10*4; ISO 180/1A |
| | 3.00 kJ/m ² @Temperature -30.0 ^o C | 1.43 ft-lb/in ² @Temperature -22.0 ^o F | 80*10*4; ISO 180/1A |
| Charpy Impact, Notched | 0.500 J/cm ² | 2.38 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|-------------------------|----------------------------|-------------------------------------|
| | 0.300 J/cm ^Å | 1.43 ft-lb/in ^Å | Edgew 120*10*4 sp=62mm; ISO 179/1eA |
| | @Temperature -30.0 Å°C | @Temperature -22.0 Å°F | |
| Taber Abrasion, mg/1000 Cycles | 95 | 95 | CS-17, 1 kg; SABIC Method |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|--------------------------------------|------------------------------------|
| CTE, linear, Parallel to Flow | 70.0 Åµm/m-Å°C | 38.9 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 Å°C | @Temperature 73.4 - 176 Å°F | |
| CTE, linear, Transverse to Flow | 90.0 Åµm/m-Å°C | 50.0 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 Å°C | @Temperature 73.4 - 176 Å°F | |
| Thermal Conductivity | 0.230 W/m-K | 1.60 BTU-in/hr-ftÅ ² -Å°F | ISO 8302 |
| Hot Ball Pressure Test | <= 90.0 Å°C | <= 194 Å°F | IEC 60695-10-2 |
| Deflection Temperature at 0.46 MPa (66 psi) | 90.0 Å°C | 194 Å°F | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 Å°C | 167 Å°F | Edgew 120*10*4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point | 95.0 Å°C | 203 Å°F | Rate B/50; ISO 306 |
| | 100 Å°C | 212 Å°F | Rate B/120; ISO 306 |
| | 100 Å°C | 212 Å°F | Rate A/50; ISO 306 |
| Oxygen Index | 30 % | 30 % | ISO 4589 |
| Glow Wire Test | 960 Å°C | 1760 Å°F | IEC 60695-2-12 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|----------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | ROA; IEC 60093 |
| Dielectric Constant | 2.5 | 2.5 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 2.6 | 2.6 | IEC 60250 |
| | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz | |

| Electrical Properties | 16.0 kV/mm Metric | 406 kV/in English | Comments 60243-1 |
|-----------------------|------------------------------|------------------------------|---------------------|
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| | 26.0 kV/mm | 660 kV/in | in oil; IEC 60243-1 |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | 33.0 kV/mm | 838 kV/in | in oil; IEC 60243-1 |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |
| Dissipation Factor | 0.0030 | 0.0030 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 0.0050 | 0.0050 | IEC 60250 |
| | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz | |

| Descriptive Properties | Value | Comments |
|------------------------------------|--------|----------------|
| Ball Pressure Test, 75Â°C +/- 2Â°C | PASSES | IEC 60695-10-2 |

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