

Mitsubishi Xantar[®] 24 UR Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Xantar[®] materials are engineered for performance, consistency and reliability. This makes Xantar[®] resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The Xantar[®] range includes: clear and tinted grades for transparent applications reinforced materials Flame retardant and halogen free types lubricated materials for added wear resistance Mitsubishi Engineering Plastics acquired the Xantar[®] product line from DSM in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-24-UR-Polycarbonate.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ISO 1183 |
| Water Absorption | 0.35 % | 0.35 % | Sim. to ISO 62 |
| Viscosity Test | 52 cm ³ /g | 52 cm ³ /g | Limiting Viscosity Number; ISO 1628-4 |
| | 58 cm ³ /g | 58 cm ³ /g | Viscosity Number |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ISO 294-4 |
| Melt Flow | 8.4 g/10 min @Load 1.20 kg, Temperature 300 °C | 8.4 g/10 min @Load 2.65 lb, Temperature 572 °F | Calculated from Volume Flow Rate of 7 cm ³ /10min.; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------------------------------------|----------------------------------------------------|--------------|
| Hardness, Rockwell M | 70 | 70 | ISO 2039-2 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | ISO 527-1/-2 |
| Elongation at Break | >= 50 % | >= 50 % | ISO 527-1/-2 |
| Elongation at Yield | 6.0 % | 6.0 % | ISO 527-1/-2 |
| Tensile Modulus | 2.30 GPa | 334 ksi | ISO 527-1/-2 |
| Flexural Strength | 90.0 MPa | 13100 psi | ISO 178 |
| Flexural Modulus | 2.40 GPa | 348 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 80.0 kJ/m ² @Temperature 23.0 °C | 38.1 ft-lb/in ² @Temperature 73.4 °F | ISO 180/4A |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties | 65.0 Åum/m-Å°C Metric | English in/in-Å°F | Comments |
|---------------------------------------------|--------------------------|-----------------------|------------------------------------------------|
| CTE, linear, Parallel to Flow | @Temperature 20.0 Å°C | @Temperature 68.0 Å°F | ISO 11359-1/-2 |
| Maximum Service Temperature, Air | 125 Å°C | 257 Å°F | Ball Pressure Temperature; IEC 60695-10-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 130 Å°C | 266 Å°F | ISO 75-1/-2 |
| Vicat Softening Point | 150 Å°C | 302 Å°F | 50Å°C/h 50N; ISO 306 |
| UL RTI, Electrical | 130 Å°C | 266 Å°F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 130 Å°C | 266 Å°F | UL746B |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| UL RTI, Mechanical with Impact | 125 Å°C | 257 Å°F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 130 Å°C | 266 Å°F | UL746B |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| UL RTI, Mechanical without Impact | 125 Å°C | 257 Å°F | UL746B |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | 130 Å°C | 266 Å°F | UL746B |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| Flammability, UL94 | V-2 | V-2 | IEC 60695-11-10 |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| | V-2 | V-2 | IEC 60695-11-10 |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| Oxygen Index | 26 % | 26 % | ISO 4589-1/-2 |
| Glow Wire Test | 800 Å°C | 1470 Å°F | Glow Wire Flammability Index; IEC 60695-2-12 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 825 Å°C | 1520 Å°F | Glow Wire Ignition Temperature; IEC 60695-2-13 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 875 Å°C | 1610 Å°F | Glow Wire Ignition Temperature; IEC 60695-2-13 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | 960 Å°C | 1760 Å°F | Glow Wire Flammability Index; IEC 60695-2-12 |

| Thermal Properties | @Thickness 3.00 mm Metric | @Thickness 0.118 in English | Comments |
|-----------------------|------------------------------|--------------------------------|---------------------------------|
| Optical Properties | Metric | English | Comments |
| Transmission, Visible | 89 % | 89 % | Light Transmittance; ASTM D1003 |

| 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 | IEC 60093 |
| Dielectric Constant | 2.9 | 2.9 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 3.0 | 3.0 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 29.0 kV/mm | 737 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.00066 | 0.00066 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 0.0092 | 0.0092 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Comparative Tracking Index | 225 V | 225 V | IEC 60112 |
| | 250 - 399 V | 250 - 399 V | |

| Descriptive Properties | Value | Comments |
|--------------------------------------|-------|----------|
| Blow Molding | Yes | |
| Heat stabilized or stable to heat | Yes | |
| High impact or impact modified | Yes | |
| Injection molding | Yes | |
| Light stabilized or stable to light | Yes | |
| Release Agent | Yes | |
| Transparent | Yes | |
| U.V. stabilized or stable to weather | Yes | |
| Without Fillers | Yes | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China