

Denka CL-430 Transparent Resin Polymer (MABS) ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

"TX Polymer" (methyl methacrylate styrene), MS resins as an alternative to acrylic resins, with low density, low moisture absorption, and good moldability, "TH Polymer/TP Polymer," MBS resins with a good balance of transparency, strength and fluidity (methyl methacrylate butadiene styrene), "TE Series/CL Series," transparent ABS resins with excellent color attributes and tensile strength are available (among others). Applications TX is used for: flat display substrates optical components miscellaneous goods. TP/TH are used for: food package sheeting as well as in manufacturing electronic equipment and components miscellaneous goods TE/CL are for: electronic equipment and components information equipment components AV equipment, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Denka-CL-430-Transparent-Resin-Polymer-MABS-ABS.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|-----------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ASTM D792 |
| Density | 1.08 g/cc | 0.0390 lb/in ³ | ISO 1183 |
| Melt Flow | 2.7 g/10 min | 2.7 g/10 min | ISO 1133 |
| | @Load 5.00 kg, Temperature 200 °C | @Load 11.0 lb, Temperature 392 °F | |
| | 34 g/10 min | 34 g/10 min | ISO 1133 |
| | @Load 10.0 kg, Temperature 220 °C | @Load 22.0 lb, Temperature 428 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|---------------------|
| Hardness, Rockwell M | 31 | 31 | ISO 2039-2 |
| Tensile Strength at Break | 31.0 MPa | 4500 psi | 50mm/min; ISO 527-2 |
| | 37.0 MPa | 5370 psi | 50mm/min; ASTM D638 |
| Elongation at Break | 40 % | 40 % | 50mm/min; ISO 527-2 |
| Tensile Modulus | 4.20 GPa | 609 ksi | 50mm/min; ISO 527-1 |
| Flexural Strength | 62.0 MPa | 8990 psi | ISO 178 |
| | 63.0 MPa | 9140 psi | 2mm/min; ASTM D790 |
| Flexural Modulus | 2.00 GPa | 290 ksi | 2mm/min; ISO 178 |
| | 2.01 GPa | 292 ksi | 2mm/min; ASTM D790 |
| Izod Impact Resistance | 16.0 J/cm ² | 76.1 ft-lb/in ² | |

| Charpy Impact, Notched Mechanical Properties | 1.40 J/cm ² Metric | 6.66 ft-lb/in ² English | ISO 179-2 Comments |
|---|----------------------------------|---------------------------------------|-----------------------|
|---|----------------------------------|---------------------------------------|-----------------------|

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|--------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 64.0 °C | 147 °F | ISO 75-2 |
| | 72.0 °C | 162 °F | ASTM D648 |
| Vicat Softening Point | 80.0 °C | 176 °F | 50N; ISO 306 |
| Flammability, UL94 | HB | HB | |

| Optical Properties | Metric | English | Comments |
|-----------------------|-----------------------------|-------------------------------|-------------|
| Haze | 2.0 % @Thickness 2.00 mm | 2.0 % @Thickness 0.0787 in | ISO 14782 |
| Transmission, Visible | 91 % @Thickness 2.00 mm | 91 % @Thickness 0.0787 in | ISO 13468-1 |

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