



Cycoloy* Resin C2950 Europe-Africa-Middle East: COMMERCIAL

Non-chlorinated and non-brominated flame retardant PC/ABS offering balanced flow and impact plus improved heat resistance intended for various applications.requirements without Chlorinated or Brominated additives.

| You may also be interested in: | | |
|--------------------------------|------------|-----------------------|
| Enhanced Property | Data Sheet | |
| Improved Flow/Impact Balance | CX7211 | Additonal Information |
| Improved Flow/Impact Balance | CX7110 | Additonal Information |
| Improved UL Performance | CX7240 | Additonal Information |

| TYPICAL PROPERTIES 1 | TYPICAL VALUE | UNIT | STANDARD |
|---|---------------|-----------|--------------|
| MECHANICAL | | | |
| Taber Abrasion, CS-17, 1 kg | 54 | mg/1000cy | SABIC Method |
| Tensile Stress, yield, 5 mm/min | 55 | MPa | ISO 527 |
| Tensile Stress, break, 5 mm/min | 45 | MPa | ISO 527 |
| Tensile Stress, yield, 50 mm/min | 60 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min | 50 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 4 | % | ISO 527 |
| Tensile Strain, break, 5 mm/min | 65 | % | ISO 527 |
| Tensile Strain, yield, 50 mm/min | 4 | % | ISO 527 |
| Tensile Strain, break, 50 mm/min | >50 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 2800 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 90 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 2700 | MPa | ISO 178 |
| Hardness, H358/30 | 116 | MPa | ISO 2039-1 |
| Hardness, Rockwell R | 123 | - | ISO 2039-2 |
| IMPACT | | | |
| Izod Impact, notched 80*10*3 +23°C | 50 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*3 -30°C | 14 | kJ/m² | ISO 180/1A |
| Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm | 50 | kJ/m² | ISO 179/1eA |
| Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm | 14 | kJ/m² | ISO 179/1eA |

 Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity. All properties, expect the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294. 2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions
4) Own measurement according to UL.

Source, GMD, Last Update:03/14/2008

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|---|---------------|-------------------------|----------------|
| THERMAL | | | |
| Thermal Conductivity | 0.2 | W/m-°C | ISO 8302 |
| CTE, -40°C to 40°C, flow | 7.5E-05 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 7.5E-05 | 1/°C | ISO 11359-2 |
| Ball Pressure Test, 75°C +/- 2°C | PASSES | - | IEC 60695-10-2 |
| Ball Pressure Test, approximate maximum | 95 | °C | IEC 60695-10-2 |
| Vicat Softening Temp, Rate A/50 | 118 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/50 | 110 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 112 | °C | ISO 306 |
| HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm | 103 | °C | ISO 75/Be |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm | 90 | °C | ISO 75/Ae |
| Relative Temp Index, Elec | 85 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 85 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 85 | °C | UL 746B |
| PHYSICAL | | | |
| Mold Shrinkage on Tensile Bar, flow (2) | 0.4 - 0.6 | % | SABIC Method |
| Density | 1.17 | g/cm ³ | ISO 1183 |
| Water Absorption, (23°C/sat) | 0.6 | % | ISO 62 |
| Moisture Absorption (23°C / 50% RH) | 0.2 | % | ISO 62 |
| Melt Volume Rate, MVR at 260°C/2.16 kg | 12 | cm ³ /10 min | ISO 1133 |
| ELECTRICAL | | | |
| Comparative Tracking Index (UL) {PLC} | 0 | PLC Code | UL 746A |
| Volume Resistivity | >1.E+15 | Ohm-cm | IEC 60093 |
| Surface Resistivity, ROA | >1.E+15 | Ohm | IEC 60093 |
| Dielectric Strength, in oil, 0.8 mm | 35 | kV/mm | IEC 60243-1 |
| Dielectric Strength, in oil, 1.6 mm | 25 | kV/mm | IEC 60243-1 |
| Dielectric Strength, in oil, 3.2 mm | 17 | kV/mm | IEC 60243-1 |
| Relative Permittivity, 50/60 Hz | 2.8 | - | IEC 60250 |
| Relative Permittivity, 1 MHz | 2.7 | - | IEC 60250 |

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| TYPICAL PROPERTIES ¹ | TYPICAL VALUE | UNIT | STANDARD |
|---|---------------|------|----------------|
| ELECTRICAL | | | |
| Dissipation Factor, 50/60 Hz | 0.004 | - | IEC 60250 |
| Dissipation Factor, 1 MHz | 0.006 | - | IEC 60250 |
| Comparative Tracking Index | 600 | V | IEC 60112 |
| FLAME CHARACTERISTICS | | | |
| UL Recognized, 94V-0 Flame Class Rating (3) | 1.5 | mm | UL 94 |
| UL Recognized, 94-5VB Rating (3) | 2.3 | mm | UL 94 |
| Glow Wire Flammability Index 960°C, passes at | 1 | mm | IEC 60695-2-12 |
| Oxygen Index (LOI) | 32 | % | ISO 4589 |
| | | | |

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| PROCESSING PARAMETERS | TYPICAL VALUE | UNIT | |
|-----------------------------|---------------|------|--|
| Injection Molding | | | |
| Drying Temperature | 90 - 100 | °C | |
| Drying Time | 2 - 4 | hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 250 - 280 | °C | |
| Nozzle Temperature | 230 - 270 | °C | |
| Front - Zone 3 Temperature | 240 - 280 | °C | |
| Middle - Zone 2 Temperature | 230 - 270 | °C | |
| Rear - Zone 1 Temperature | 210 - 240 | °C | |
| Hopper Temperature | 60 - 80 | °C | |
| Mold Temperature | 60 - 90 | °C | |

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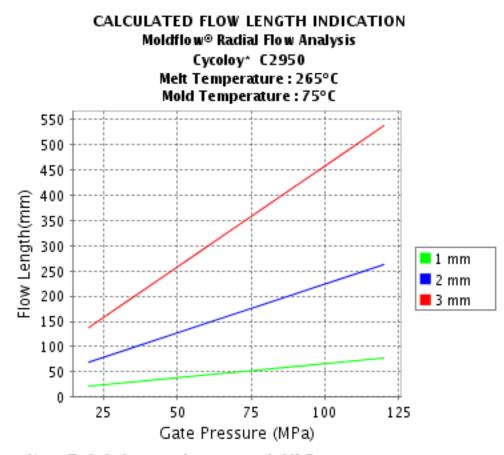
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Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative.

[®] Moldflow is a registered trademark of the Moldflow Corporation.

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