

Covestro Makrolon® T 7435 Polycarbonate, High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Impact modified injection molding grade, extremely easy flow and easy mold release, housings for portable mobile phones. Information provided by Bayer. As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Makrolon-T-7435-Polycarbonate-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Water Absorption	0.35 %	0.35 %	Saturation in water
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.35 %	0.35 %	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	16.5 g/10 min @Load 1.20 kg, Temperature 300 °C	16.5 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	53	53	ASTM D785
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	110 %	110 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	
Tensile Modulus	2.10 GPa	305 ksi	
Flexural Yield Strength	83.0 MPa	12000 psi	at 5% strain; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	7.40 J/cm @Thickness 3.20 mm	13.9 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	NB	NB	

Mechanical Properties	Metric	English	Comments
CTE, linear	67.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	37.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	121 $^{\circ}\text{C}$	250 $^{\circ}\text{F}$	
Vicat Softening Point	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	26 %	26 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	
Surface Resistance	$1.00\text{e}+15$ ohm	$1.00\text{e}+15$ ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 310 $^{\circ}\text{C}$	550 - 590 $^{\circ}\text{F}$	

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