

Covestro Makroblend® UT305 PC/PET Blend

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Main characteristics:• High toughness even at low temperatures• Good chemical resistance• Good paintability• Good flowability• Low moisture intakeGrade characteristics:• High moisture environments• Easy releaseAs 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-Makroblend-UT305-PCPET-Blend.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183-1
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	110 %	110 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	5.5 %	5.5 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180-A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180-A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	128 °C	262 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	108 °C	226 °F	ISO 75-1,-2
Vicat Softening Point	140 °C @Load 5.10 kg	284 °F @Load 11.2 lb	120°C/h; ISO 306
UL RTI, Electrical	75.0 °C	167 °F	UL 746B
UL RTI, Mechanical with Impact	75.0 °C	167 °F	UL 746B
UL RTI, Mechanical without Impact	75.0 °C	167 °F	UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.10 %	0.10 %	post-shrinkage; b.o. ISO 2577

Processing Properties	Metric	English	Comments
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

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