

Covestro Makroblend® UT4045 G PC/PBT Blend, 20% Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Glass Filled , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Main characteristics:• High toughness even at low temperatures• Good chemical resistance• Good paintability• Good flowability• Low moisture intake
Grade characteristics:• Excellent chemical resistance• Easy release
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-Makroblend-UT4045-G-PCPBT-Blend-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183-1

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa	13100 psi	ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527-1,-2
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1,-2
	3.0 %	3.0 %	Nominal, 5 mm/min; ISO 527-1,-2
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	6.50 GPa	943 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	6.10 GPa	885 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180-A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180-A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties Modulus at 0.46 MPa (66 psi)	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °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
Shrinkage	<= 0.10 %	<= 0.10 %	post-shrinkage; b.o. ISO 2577

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	70.0 °C	158 °F	Injection molding; ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

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