

Covestro Makroblend® KU 2-7940 Polycarbonate + PBT, Impact Grade

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

Material Notes:

Developmental product ISO 7792-1-PC/PBT, MHP, -020(PC+PBT)-blend impact modified Injection molding grade high toughness at low temperatures unreinforced Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Makroblend-KU-2-7940-Polycarbonate-PBT-Impact-Grade.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 260 °C	30 g/10 min @Load 11.0 lb, Temperature 500 °F	estimated from MVR using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	5.20 J/cm ²	24.7 ft-lb/in ²	ISO 179/1eA
	5.00 J/cm ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Vicat Softening Point	122 °C	252 °F	50°C/h 50N; ISO 306

Thermal Properties Flammability, UL 94	Metric	English	Comments IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	70.0 °C	158 °F	Injection Molding; ISO 10724
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	India	
	Near East/Africa	
	North America	
	South and Central America	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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