

Makroblend® UT305

Polycarbonate + PET

Covestro - Polycarbonates

Message:

(PC+PET)-blend, easy release, injection molding. Makroblend UT305 offers high heat resistance, good chemical resistance and flowability. Molded parts from UT305 provide a good surface appearance and exceptional dimensional stability, even in high moisture environments.

General Information			
UL YellowCard	E41613-100808919		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Mold Release		
	Good Surface Finish		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.24	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	49.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow ¹	0.65	%	
Across Flow : 90°C, 1 hr	0.10	%	
Flow ²	0.65	%	
Flow : 90°C, 1 hr	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	70.0	MPa	
Break, 23°C	54.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	5.5	%	
Break, 23°C	110	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m²	
23°C	8.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		

23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	128	°C	ISO 75-2/B
1.8 MPa, Unannealed	108	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B120
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	600 bar		
2.	600 bar		

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