

ECOVYLOPET® EMC2311

Polyethylene Terephthalate

TOYOBO America, Inc.

Message:

Features

1. Having made significant improvement in appearances, fluidity and mold release easiness, ECOVYLOPET® can be processed much easier than general PET for injection molding.
2. It is adaptable for large auto-parts and industrial product parts.
3. With a specific miscibility method, its impact resistance has greatly been enhanced.

General Information			
Filler / Reinforcement	Glass Fiber, 10% Filler by Weight		
Features	Good Flow		
	Good Impact Resistance		
	Good Mold Release		
	Good Processability		
	Pleasing Surface Appearance		
	Recyclable Material		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Bottles		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 2.00 mm	0.40	%	
Across Flow : 2.00 mm	0.90	%	
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ASTM D638
Tensile Strength (Yield)	80.0	MPa	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Strength (Yield)	125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	235	°C	
1.8 MPa, Unannealed	205	°C	
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Additional Information	Nominal Value	Unit	
Flexibility Modulus	4.3	%	
Injection	Nominal Value	Unit	
Mold Temperature	120	°C	

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Recommended distributors for this material

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