

VYLOPET® EMC405A

Polybutylene Terephthalate + PET

TOYOBO America, Inc.

Message:

VYLOPET® EMC405A is a polybutylene terephthalate PET (PBT PET) product. It is available in North America.

Features include:

flame retardant/rated flame

high liquidity

beautiful

General Information			
Features	High liquidity		
	Good appearance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm³	ASTM D792
	1.3		
Molding Shrinkage - Flow (3.00 mm)	1.2	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	3.7	%	ASTM D638
Flexural Modulus	5100	MPa	ASTM D790
Flexural Strength (Yield)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	205	°C	ASTM D648
1.8 MPa, not annealed	110	°C	ASTM D648
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength (2.00 mm)	24	kV/mm	ASTM D149
Arc Resistance	130	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating	HB	UL 94
Additional Information		
Ball Pressure Temperature, UL746, Method B: 205 °CComparative Tracking Index, IEC Pub1.112: Class 2		
Injection	Nominal Value	Unit
Drying Temperature	140	°C
Drying Time	3.0	hr
Processing (Melt) Temp	265	°C
Mold Temperature	80.0	°C

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