

VYLOPET® EMC618P

Polybutylene Terephthalate + PET

TOYOBO America, Inc.

Message:

VYLOPET® EMC618P is a polybutylene terephthalate PET (PBT PET) product. It is available in North America.

Features include:

flame retardant/rated flame

Flame Retardant

General Information			
Features	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm³	ASTM D792
	0.90		
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	142	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	8500	MPa	ASTM D790
Flexural Strength (Yield)	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	225	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ASTM D648
CLTE - Flow	3.5E-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	90.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Ball Pressure Temperature, UL746, Method B: 205 °CComparative Tracking Index, IEC Pub1.112: Class 3			

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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