

Plaslube® PC / PET IM 1012

Polycarbonate + PET

Techmer Engineered Solutions

Message:

Plaslube® PC / PET IM 1012 is a Polycarbonate + PET (PC+PET) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Impact Modified

Impact Resistant

General Information			
Additive	Impact Modifier		
Features	High Impact Resistance		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
265°C/5.0 kg	12	g/10 min	
285°C/2.16 kg	28	g/10 min	
Water Absorption (24 hr)	0.17	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Elongation (Yield)	110	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	91.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	430	J/m	
23°C, 3.18 mm	800	J/m	
Instrumented Dart Impact			ASTM D3763
-40°C, Total Energy	4.87	J	
23°C, Total Energy	5.12	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	116	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257

Dielectric Strength ¹	28	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Method A (Short-Time)		

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