

ESTOPLAST EP 1115-N

Polybutylene Terephthalate
Ester Industries Ltd.

Message:
Polybutylene Terephthalate - Unfilled
Electrical & Electronic: Suitable for extrusion applications like OFC, rods, tubes, fibers

General Information			
Additive	demoulding		
Features	High Melt Strength		
	Good demoulding performance		
	Viscosity, High		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	10.0	cm ³ /10min	ASTM D1238
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Strength	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	140	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

0.75 mm	HB	UL 94
1.5 mm	HB	UL 94
Extrusion	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	3.0 - 4.0	hr
Hopper Temperature	210 - 220	°C
Cylinder Zone 1 Temp.	240 - 245	°C
Cylinder Zone 2 Temp.	245 - 250	°C
Cylinder Zone 3 Temp.	245 - 250	°C
Cylinder Zone 4 Temp.	250 - 255	°C
Die Temperature	245 - 250	°C

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