

LEMALLOY® BX528A-3

Polyphenylene Ether + Nylon 6

Mitsubishi Engineering-Plastics Corp

Message:

LEMALLOY® BX528A-3 is a Polyphenylene Ether + Nylon 6 (PPE+Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of LEMALLOY® BX528A-3: Rigid.

General Information				
Features	High Rigidity			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	28.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				
Across Flow : 3.20 mm	1.0 to 1.2	--	%	
Flow : 3.20 mm	1.2 to 1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2500	1400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	62.0	37.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	15	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	57	140	%	ISO 527-2
Flexural Modulus (23°C)	2300	1400	MPa	ISO 178
Flexural Stress (23°C)	91.0	60.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	66	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	165	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	--	°C	ISO 75-2/A
CLTE - Flow	9.0E-5	--	cm/cm/°C	ISO 11359-2
Injection	Dry	Unit		
Drying Temperature	110 to 120	°C		
Drying Time	2.0 to 4.0	hr		
Rear Temperature	240 to 270	°C		
Middle Temperature	250 to 290	°C		
Front Temperature	250 to 290	°C		
Nozzle Temperature	250 to 290	°C		

Mold Temperature	60.0 to 100	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate	
Screw Speed	60 to 150	rpm

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Recommended distributors for this material

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