Generic PEBA-Ether

Polyether Block Amide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.01 - 1.15	g/cm³	ASTM D792
23°C	1.00 - 1.15	g/cm³	ISO 1183
--	1020	kg/m³	ISO 1183 [1]
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	2.0 - 8.0	g/10 min	ASTM D1238
Molding Shrinkage (23°C)	0.40 - 1.5	%	ISO 294-4
Water Absorption			
23°C, 24 hr	1.2	%	ASTM D570
23°C, 24 hr	0.70 - 3.7	%	ISO 62
Saturation	2.4	%	ISO 62 [2]
Equilibrium, 23°C, 50% RH	0.40 - 1.4	%	ISO 62
Balance	0.60	%	ISO 62 [3]
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			
23°C	25 - 90		ASTM D2240
23°C	22 - 72		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	177 - 371	MPa	ISO 527-2
--	215	MPa	ISO 527-2 [4]
Tensile Stress			
Yield, 23°C	9.00 - 74.0	MPa	ISO 527-2
Fracture, 23°C	28.6 - 60.0	MPa	ASTM D638
50% strain	8.00	MPa	ISO 527-2 [5]
Tensile Elongation			
Fracture, 23°C	340 - 750	%	ASTM D638
Fracture, 23°C	190 - 210	%	ISO 527-2
Flexural Modulus			
23°C	15.9 - 417	MPa	ASTM D790
23°C	12.0 - 406	MPa	ISO 178
Flexural Strength (Yield, 23°C)	1.20 - 15.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	97 - 120	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	60.0 - 165	°C	ASTM D1525
--	58.0 - 175	°C	ISO 306
Melting Temperature			
--	125 - 176	°C	
--	134 - 195	°C	ISO 11357-3
-- [6]	169	°C	ISO 11357-3 [7]
CLTE - Flow	1.4E-4 - 2.5E-4	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	4.0E+8 - 5.0E+10	ohms	ASTM D257
--	5.5E+3 - 4.6E+12	ohms	IEC 60093 [8]
Volume Resistivity			
23°C	4.0E+8 - 1.0E+13	ohms·cm	ASTM D257
--	2.5E+6 - 2.3E+10	ohms·m	IEC 60093 [9]

Injection	Nominal Value	Unit
Drying Temperature	60.0 - 82.5	°C
Drying Time	3.9 - 6.0	hr
Processing (Melt) Temp	209 - 267	°C
Mold Temperature	20.0 - 43.0	°C

Injection instructions
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Extrusion	Nominal Value	Unit
Drying Temperature	60.0 - 75.6	°C
Drying Time	5.0 - 6.0	hr
Melt Temperature	204 - 237	°C

Extrusion instructions
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NOTE	
1.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
2.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
3.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
4.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
5.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???

6.	10 °C/min
7.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
8.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
9.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???

Recommended distributors for this material

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