



KEYFLEX BT 1155D

Extrusion Molding, TPC-ET

Description

General Purpose, Medium Modulus

Application

Cable & Wire Jackets, Hose & Tubing, Sheet, etc.

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.18
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	1.0 ~ 1.4
Melt Flow Rate	230℃/2.16kg	ASTM D1238	g/10min	14
Water Absorption	23℃, 24hrs	ASTM D570	%	0.6
Mechanical				
Tensile Strength, 2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	135
@ Break	50mm/min		kg/cm ²	350
Tensile Elongation, 2mm		ASTM D638		
@ Yield	50mm/min		%	
@ Break	50mm/min		%	850
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm ²	
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm ²	1,700
Tear Strength @ Break	50mm/min	ASTM D624	kg/cm	150
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 ℃		kg∙cm/cm	No break
	-40 ℃		kg.cm/cm	25
Shore Hardness	Shore D	ASTM D2240	-	52
Shore Hardness	Shore A	ASTM D2240	-	
Thermal				
Melt Temperature @ Peak		ASTM D3418	°C	200
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	4.6kg		C	85
Electrical				
Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	600
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙m	>E13
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	26
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150	sec	

Values given should not be interpreted as specification and not be deded as a more and after 48 hours storage at 22% EOV is

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated : 25-Jun-14

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		Ĵ	80 ~ 90
Drying Time		hrs	3 ~ 4
Maximum Moisture Content		%	0.01
Melt Temperature		Ĵ	200 ~ 240
Cylinder Temperature	Rear	C	200 ~ 220
	Middle	C	210 ~ 230
	Front	C	220 ~ 240
Nozzle Temperature		Ĵ	220 ~ 240
Mold Temperature		Ĵ	20 ~ 40
Back Pressure		kg/cm ²	
Screw Speed		rpm	

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Processing Guide (Extrusion Molding)

Processing Parameters		Unit	Value
Drying Temperature		C	80 ~ 90
Drying Time		hrs	3 ~ 4
Maximum Moisture Content		%	0.01
Melt Temperature		C	200 ~ 240
Barrel Temperature	Zone 1	C	200 ~ 220
	Zone 2	C	210 ~ 230
	Zone 3	C	210 ~ 230
	Zone 4	C	210 ~ 230
Adapter Temperature		C	210 ~ 230
Die Temperature		C	200 ~ 220

Note) Recommend initial lower temperatures settings to avoid material degradation/hang-up in die & purge material from extruder prior to shutdown.

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