Technical Data Sheet

Bmc 605LWR

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description
BMC 605LWR is a mineral filled, glass fiber reinforced polyester bulk molding compound suitable for compression, transfer and stuffer injection molding. It is designed to provide improved wear resistance compared to standard BMC605. BMC 605LWR is produced in extruded form in a range of industrial colors. It is available in logs up to 12 inches in length or as precut slugs of specific weight, in diameters 1" to 2 ½" . Within this range, smaller diameters are supplied as multiple extrusions and weight tolerances are plus or minus 5 %, up to a maximum of plus or minus 15 grams.

General			
Filler / Reinforcement	• Glass\Mineral		
Features	• Flame Retardant • Good Electrical Properties	• Good Moldability • Medium Impact Resistance	• Wear Resistant
Appearance	• Colors Available		
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.87	1.87 g/cm³	ASTM D792
Water Absorption (24 Hr, 73°f (23°c))	0.10 %	0.10 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield, Compression Molded)	5500 psi	37.9 MPa	ASTM D638
Flexural Strength (Compression Molded)	14000 psi	96.5 MPa	ASTM D790
Compressive Strength	18500 psi	128 MPa	ASTM D695
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Compression Molded)	4.0 ft·lb/in	210 J/m	ASTM D256
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Barcol Hardness	18	18	ASTM D2583
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed, Compression Molded	500 °F	260 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Dielectric Strength (Method A (short-time))	320 V/mil	12 kV/mm	ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index (CTI)	600 V	600 V	UL 746A
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 In (1.6 Mm)	V-0	V-0	
0.13 In (3.2 Mm)	V-0	V-0	
0.25 In (6.4 Mm)	V-0	V-0	

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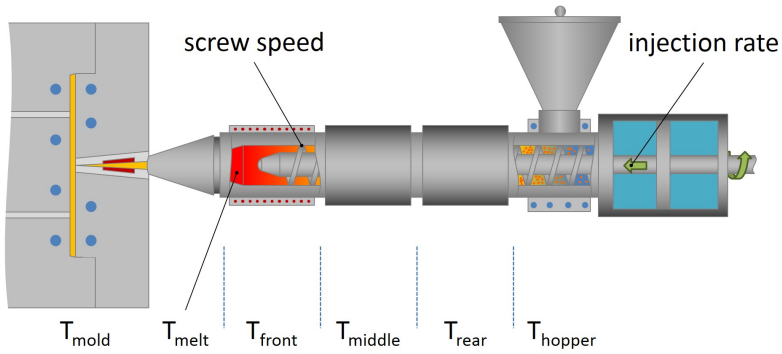

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °C

Notes

These are typical property values not to be construed as specification limits.