CHEMISTRY THAT MATTERS™

LEXAN™ 3212M RESIN

FOR FRONT FRAME OF MOBILE PHONES

HIGH FLOW PC + 20% GLASS FIBER REINFORCED

INDUSTRY CHALLENGE

- Good adhesive strength with aluminum die casting material
- Stable Dk/Df properties
- Balanced mechanical and cosmetic performance

GOOD MECHANICAL PROPERTIES

INDUSTRY REQUIREMENTS

- Advanced metal insert molding process
- Stable and effective signal transmission
- Passed reliability tests for portable devices
- Gloss surface without fiber floating

ENHANCED AESTHETICS

SABIC SOLUTION

- Good stability
- Competitive mechanical performance
- Good processability
- Strong aesthetics
- Excellent dimensional stability

EASY PROCESSABILITY



LEXAN ™ 3212M RESIN PROPERTIES

TYPICAL PROPERTIES	TYPICAL VALUE	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	90	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	2.5	%	ASTM D 638
Tensile Modulus, Type I, 50 mm/min	5600	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	130	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5200	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	110	J/M	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.3	-	ASTM D 792
Melt Flow Rate, 300°C/1.2 kg	12	g/10 min	ASTM D 1238
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4-Mar	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	285-310	°C	
Nozzle Temperature	280-305	°C	
Front - Zone 3 Temperature	285-310	°C	

CONTACT US:
Please contact your local sales representative for more information

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