LNP™ THERMOCOMP™ Compound DX11355

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP DX11355 compound is based on Polycarbonate (PC) resin containing proprietary fillers and available in black color only. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications, Improved Impact, Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link E207780-101214685

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**12**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Mold Shrinkage, MD	**0.5**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.5**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**2600**	MPa	ASTM D 638
Tensile Strength at Yield	**58**	MPa	ASTM D 638
Tensile Strength at Break	**52**	MPa	ASTM D 638
Elongation at Yield	**5.4**	%	ASTM D 638
Elongation at Break	**70**	%	ASTM D 638
Flexural Modulus	**2400**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**800**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.6**	mm	-
ASTM Data			
DTUL @ 264 psi	**114**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.01**	%	ASTM D 570
Density	**1270**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 110**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**275 - 300**	°C	-
Mold temperature	**60 - 90**	°C	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**250 - 290**	°C	-
Zone 2	**255 - 295**	°C	-
Zone 3	**260 - 300**	°C	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Additives
Flame retarding agent

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
Flame retardant