+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

WeConnectScience

LG Chem

XR490

Description

XR490 has low VOC content and low gloss with extremly high heat properties, targeted for interior parts

Key Features

Ultra High Heat Resistance, Non Painting, Low TVOC, Low Gloss

Application

Cockpit,Door Trim,Others

Properties	Condition	Method	Unit	XR490
Physical				
Specific Gravity	23℃	ASTM D792		1.07
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	3
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	49
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	15
Tensile Modulus	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	2300
Flexural Strength	23℃, 15mm/min, 3.2mm	ASTM D790	MPa	77
Flexural Modulus	23℃, 15mm/min, 3.2mm	ASTM D790	MPa	2500
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	135
Izod Impact Strength	Notched, 3.2mm, -30℃	ASTM D256	J/m	60
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	130
Izod Impact Strength	Notched, 6.4mm, -30℃	ASTM D256	J/m	50
Rockwell Hardness	R-Scale	ASTM D785		113
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	106
Vicat Softening Temperature	50N, 50℃/h	ASTM D1525	℃	115

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.
Values given should not be interpreted as specification and not be used for designing part or tool.
All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	80 ~ 90
Drying Time	hrs	3 ~ 4
Injection Temperature	℃	230 ~ 270
Mold Temperature	℃	40 ~ 80
Screw Speed	rpm	30 ~ 60

Note

Injection Temperature & 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.