Solution**Partner**



RS670 Extrusion Molding Grade

Description

- Chemical Resistance to Cyclopentane, Low Specific Gravity

Applications - Refrigerator Inner Liner

Properties	Method	Unit	RS670
Physical			,
Specific Gravity , 23℃	ASTM D792		1.04
Mold Shrinkage , 23℃, 3.2mm , 23℃	ASTM D955	%	0.4 ~ 0.7
Melt Flow Rate , 220℃, 10kg	ASTM D1238	g/10min	4.5
Mechanical			
Tensile Strength at Yield , 23℃, 50mm/min, 3.2mm	ASTM D638	Мра	49
Tensile Elongation at Yield , 23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	5
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	Мра	78
Flexural Modulus , 23℃, 15mm/min, 3.2mm	ASTM D790	MPa	2500
Izod Impact Strength , Notched, 3.2mm, 23℃	ASTM D256	J/m	310
Izod Impact Strength , Notched, 3.2mm, -30℃	ASTM D256	J/m	110
lzod Impact Strength , Notched, 6.4mm, 23℃	ASTM D256	J/m	290
Izod Impact Strength , Notched, 6.4mm, -30℃	ASTM D256	J/m	100
Rockwell Hardness , R-Scale	ASTM D785		106
Thermal			
HDT , Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	${\mathbb C}$	89
VICAT, 50N, 50°C/h	ASTM D1525	${\mathbb C}$	96
Flammability, 1.5mm	UL 94		НВ
Flammability, 3.0mm	UL 94		НВ

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 rate are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

Updated Date: 16-Nov-17 Issued Date: 6-Mar-18

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Applications

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Processing Guide (Extrusion Molding)

Processing Parameters	Unit	Value	
Drying Temperature	C	70 ~ 80	
Drying Time	hrs	3 ~ 4	
Minimum Moisture Content	%	0.01 ~ 0.01	
Melt Temperature	C	200 ~ 250	
Barrel Temperature, Zone 1	C	180 ~ 210	
Barrel Temperature, Zone 2	C	190 ~ 230	
Barrel Temperature, Zone 3	C	200 ~ 250	
Barrel Temperature, Zone 4	C	200 ~ 250	
Adapter Temperature	C	200 ~ 250	
Die Temperature	C	200 ~ 250	
Roll Stack Temperature, Top	C	70 ~ 100	
Roll Stack Temperature, Middle	${\mathbb C}$	70 ~ 90	
Roll Stack Temperature, Bottom	${\mathcal C}$	60 ~ 90	

Note

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