

Eastar™ 5011

Copolyester

Eastman Chemical Company

Message:

Eastar™ Copolyester 5011 is a glycol modified polyethylene terephthalate(PET). The modification is made by adding a second glycol, cyclohexanedimethanol (CHDM) during the polymerization stages. The second glycol is added in the proper proportion to produce an amorphous polymer.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
UL YellowCard	E118289-220105		
Features	Amorphous		
Uses	Sporting Goods Stationary Supplies Toys Writing Instruments		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
1.60 mm	0.50	%	
3.20 mm	0.20	%	
Water Absorption (23°C, 24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 23°C)	25.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	30	%	ASTM D638
Flexural Modulus (23°C)	2200	MPa	ASTM D790
Flexural Strength (23°C)	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	28	J/m	
23°C	69	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	2600	J/m	
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	67.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
Haze	0.30	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

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