ESCO GROUP

EGYPTIAN SAUDI COMPANY FOR PLASTIC

Manufacturer: DIOKI

DIOKI HIPS 703 ANTI FREON HIGH IMPACT POLYSTYRENE

MATERIAL DESCRIPTION : DİOKİ HIPS 703® is high impact polystyrene specially developed for processing by extrusion and thermoforming. DİOKİ HIPS 703® has excellent resistance to hydrocarbons used in the fridge sector as blowing agent for PU insulating foams (ESCR). This polystyrene grade is characterized by high impact strength and good tensile strength.

APPLICATION : Extruded and thermoformed for; interior refrigerator walls(ESCR), food processing industry and other extruded products. It is miscible with other DİOKİ GPPS®/HIPS® Polystyrene grades, but it is not miscible with ABS and SAN plastomers.

Physical Properties	Standard Method	Value	Unit
Melt Flow Index (200 °C/ 5kg)	ASTM D 1238	2,7	g/10 min.
Thermal Properties			
Vicat Softening Temperature (Rate B, 10N)	ASTM D 1525	102	°C
Heat Distortion Temp. (Method B, 0.45 MPa)	ASTM D 648	82	°C
Mechanical Properties			
Tensile Properties	ASTM D 638		
Strengh at Yield		14	
Strength at Break		21	MPa
Elongation at Break		70	%
Tensile Modulus		1300	MPa
Flexural Properties	ASTM D 790		
Strength		33	MPa
Modulus		1400	MPa
Izod Impact Resistance, Notched (23°C)	ASTM D 256	102	J/m

Processing Conditions	Value	Unit
Processed in Melt Temperature Range	160-230	°C
Mould Shrinkage	0,4-0,6	%
Tool Temperature	20-60	°C

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