

NEFTEKHIM ABS 0475E

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 0475E- is a grade with high impact strength applied for sheet extrusion. It is a good processed grade with enhanced heat resistance intended for production of sheet extrusion (coextruded or not) for sanitary appliances and transport components. It is produced self-colored only, free of additives and dye.

General Information			
Features	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
Uses	Sanitary Products		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	3.0 to 6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength (Yield)	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m²	DIN 53453
Notched Izod Impact Strength (23°C)	20	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Deflection Temperature	100	°C	ASTM D648
Residual Styrene ²	0.050	%	Internal Method


Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-1
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	60		ASTM D523
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Test Method: TU 2214-159-05766801-2011		

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