

TOTAL Polypropylene PPC 4280W

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

Total Petrochemicals Polypropylene 4280W is an impact copolymer with a low Melt Flow of 1.3 g/10min. 4280W polypropylene has a low fluidity providing melt strength with excellent impact properties. It is nucleated for added stiffness and surface hardness. 4280W is designed to be particularly suited for profile and sheet extrusion, extrusion-thermoforming and heavy-duty injection molded applications.

General Information			
Additive	Nucleating Agent		
Features	Good Stiffness		
	High Hardness		
	High Impact Resistance		
	High Melt Stability		
	Impact Copolymer		
	Low Flow		
	Nucleated		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	1310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			DIN 53453
-20°C	8.0	kJ/m²	ASTM D256
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	75	J/m	ASTM D256
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	152	°C	ASTM D1525
Melting Temperature	71.1 to 73.9	°C	Internal Method

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